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62.71

SEEDS

HIGHEST
®
QUALITY

PLANTS
BULBS
ROSES
TREES
GARDEN
SUPPLIES

1921
CATALOG



Routledge SEED & FLORAL CO

145 147 2nd St. PORTLAND ORE.

READ ALL ON THIS PAGE CAREFULLY

What WE Do and What YOU Should Do FORWARDING CHARGES BY PARCEL POST, EXPRESS OR FREIGHT By Mail or Parcel Post

OTHER STATES.—Customers ordering from other states must add postage (see rate table, page 2), if wanted by mail, otherwise shipment will be made by express or freight, transportation charges collect.

The following rules apply to the states west of the Rocky Mountains, i. e., OREGON, WASHINGTON, CALIFORNIA, IDAHO and MONTANA:

On Cash Orders we will at prices printed in this catalog send by prepaid parcel post all Seeds in packets, ounces, or single pounds.

Small Plants (not potted), Bulbs, Roots and 1-year-old Roses are prepaid unless otherwise stated.

SEEDS IN BULK.—When you order Seeds in quantity above 1 lb., add postage. (See parcel post rates, page 2.)

TOOLS, SUPPLIES, FOODS, REMEDIES, ETC.—On this class of goods we have marked the parcel post weight, including

packing (PP. Wgt.), so that you can add postage to catalog prices if you want them by parcel post.

HARDY FLOWERING SHRUBS, SMALL FRUIT, BERRY and ORNAMENTAL SHRUBS and PLANTS, CLIMBING VINES and 2-YEAR-OLD ROSE BUSHES can be sent by parcel post if necessary, but be sure you send extra money for packing and postage. Postage and packing charges will be specified on the different pages unless the prices are post-paid.

NOT MAILABLE.—Plants in pots, large branching shrubs, Evergreens of all kinds, that must be balled in earth, Fruit and Shade Trees, over 1 year old and taller than 3 feet cannot be sent by Parcel Post. Neither can insecticides that are poisonous, flower pots, jardineres, bird cages, or liquids in larger than 1-pint cans.

By Freight or Express

We DO NOT at catalog prices pay freight or express charges on any stock we offer, unless so stated; therefore, take note of the following paragraph:

LARGE ORDERS.—Any gardener, institution or individual wishing seeds, plants, trees or supplies in large quantities is requested to mail a list of what is wanted, stating grade, size or amount, and we will promptly return it with our very lowest prices. A letter of inquiry may save you dollars if you want to buy in QUANTITY, or some PARTICULAR STOCKS.

ORDER EARLY.—We aim to execute all orders as soon as received, but during the rush season in April and May delays are unavoidable, which, however, can be partly overcome by our patrons anticipating their wants and ordering and taking delivery of their requirements early.

CASH WITH ORDER.—Please send money with the order sufficient to cover the whole bill. We decline sending goods "Collect on Delivery," unless remittance be made on account to guarantee acceptance.

CORRESPONDENCE.—We try to give prompt attention to all proper letters of inquiry, etc., but ask, as a favor, that all questions be stated clearly and briefly, and not on order sheets.

PREPAY STATIONS.—When you send in orders to go by freight or express be sure you send extra money to pay the transportation charges if your station is a prepay point, which is always the case where there is no regular agent. If you send more than enough, we will refund it as soon as we get the prepay bill. If not enough, we will write for the balance and expect you to remit promptly.

SEASONABLE STOCKS.—Many customers order plants and bulbs out of season—that is, before we get stocks in or perhaps too late in the spring. Rather than delay the balance of your order, we will send what is seasonable at once and defer the balance until proper planting season unless otherwise instructed.

REPORTS—GOOD OR BAD.—Will you help us to attain greater success by writing and telling us how our Seeds and Supplies reach you, how they grow and how you like them? We will certainly appreciate it. Your criticisms, if you have any, as well as your praises, are desired.

MISTAKES.—These will happen occasionally, in spite of all care. Write us at once, with copy of original order, if possible, and mistakes will be promptly rectified.

NOTE.—We use every precaution in procuring fresh, pure and reliable seeds, etc., but we, in common with other responsible seed houses, sell our goods subject to the following disclaimer, it being that adopted by the American Seed Trade Association, i. e.: We give no warranty, expressed or implied, as to description, quality, productiveness or any other matter of any seeds, bulbs, nursery stock, roots or plants sent out and will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms they are to be returned at once.

ROUTLEDGE SEED & FLORAL CO.

Quantity.	NAMES OR ARTICLES WANTED.	Amount.
	Amount Brought Forward	
	Total Amount of Order	

SPECIAL NOTICE.—We shall esteem it a great favor if you will give us in the spaces below the names and addresses of some of your neighbors or any acquaintances in the West whom you think would be interested in this catalog. For your kindness, we will put in your order free of charge a premium plant, bulb, or seeds—our selection.

NAME	POST OFFICE	R. F. D.	STATE

NOTE.—Before you send this order read carefully what we have to say about parcel post and transportation charges on inside front cover and on page 1.

LET
US
SPRAY



GERMO

REG. U. S. PAT. OFF.



FOR CHICKENS, TURKEYS, DUCKS, GEESE, PIGEONS

CHOLERINE—the universal conditioner for the poultryman. Your fowls fed CHOLERINE will keep healthier and produce more eggs during the season. The mortality will be much less and the fowls will go through the moult in far better shape.

Baby Chicks started on CHOLERINE are very rugged, even growing flocks. They brood better, feed better, and have proven to be better birds.

CHOLERINE is fed in a sour milk, or milk product drink as first choice, and moist mash as second choice, for laying and breeding fowls.

Many of the largest Poultrymen on the Coast and throughout the United States are continuous feeders of CHOLERINE.

Baby Chicks are fed CHOLERINE in a milk drink or in the drinking water.

CHOLERINE is recommended for indigestion, liver and kidney troubles in fowls, and is an excellent preventative of pox, roup, worms and kindred diseases.

CHOLERINE is also recommended for ailments of the digestive tract or the circulation of blood in a fowl.

CHOLERINE aids fowls to obtain full nutriment from food consumed.

CHOLERINE TABLETS

CHOLERINE is also put up in tablet form for convenience in shipping or mailing, 35 and 65 cent sizes. A trial will convince.

It takes a book to tell about CHOLERINE, for which write GERMO MFG. CO. Free.

GERMO CHOLERINE PRICES

Size—	Price	Size—	Price
Tablets (Size)	\$.35 each	Bottle, 1 gallon.....	\$2.50 gal.
Tablets (Size) .....	.65 each	Bottle, 5 gallon.....	2.25 gal.
Bottle, 6-oz. ....	.35 each	½ barrel, 30 gallons.....	1.50 gal.
Bottle, 16-oz. ....	.65 each	Barrel, 50 gallons.....	1.25 gal.

Tablets by mail, 10 cents extra. Price F. O. B. our warehouse.

ASK FOR GERMO BOOKLET. ALSO SEE OTHER GERMO PAGES IN THIS CATALOGUE.

FOR SALE BY

Routledge
SEED & FLORAL CO
145 147 2nd St. PORTLAND ORE.
MANUFACTURED BY

GERMO MFG. CO.

LOS ANGELES



LET
US
SPRAY

LET US SPRAY



GERMO

REG. U. S. PAT. OFF.



LICE POWDER FOR KILLING LICE

On Fowls, Cattle, Sheep, Hogs, Pigs, Etc.
ACTIVE INGREDIENTS VERY HIGH

Size—	Price	Size—	Price
½ lb. cans.....	\$.60	5 lb. cans.....	\$4.75
1 lb. cans.....	1.00	10 lb. cans.....	9.00

Prices F. O. B. our warehouse.

Add 10 cents for half and one-pound packages and amount of postage for six and twelve pounds, respectively, if five and ten-pound cans are desired by mail.

Kills Flies

INSECTICIDE

Kills Flies

Head Lice, Body Lice, Crabs, Bed Bugs, Ants, Roaches, Cloth Moths, Chiggers, Mosquitoes, Fleas, Lice and Mites on Fowls and many other insects.

A DISINFECTANT AND GERMICIDE

(When used on dry surfaces)

For Stock Farms, Poultry Ranches and also for the Home, Hospital, Asylum, School or Hotel, but not to be used with water.

For use against most Contagious Diseases and Germs.

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Size—	Price	Size—	Price
1 quart cans	\$.90 each	10 gallon cans	\$2.25 gal.
½ gallon cans	1.50 each	30 gallon drums.....	2.05 gal.
1 gallon cans	2.75 gal.	55 gallon drums.....	2.00 gal.
5 gallon cans	2.50 gal.		

Prices F. O. B. our warehouse. Drums, \$7.50

ROACH POWDER

DEAD



DEAD

GERMO ROACH POWDER, if properly used, is guaranteed to rid your premises of roaches or water bugs. Evidence of the value of GERMO ROACH POWDER is presented by the great number of satisfied users.

Size—	Price	Size—	Price
1 lb. can.....	\$1.50	5 lb. can.....	\$7.00

If ordered by mail add 10 cents for ½ and 1-lb. cans and for 5-lb. can add postage sufficient for six lbs.

ASK FOR GERMO BOOKLET. ALSO SEE OTHER GERMO PAGES IN THIS CATALOGUE.

FOR SALE BY

Routledge SEED & FLORAL Co

145 147 2nd St. PORTLAND ORE.

MANUFACTURED BY

GERMO MFG. CO. LOS ANGELES



LET US SPRAY

=====**The Four Routledge Brothers**=====

Learn to know them by their given names to save confusion



RALPH R.
Pres.-Gen'l Mgr.



J. IRA
Sec.-Treas.



C. H.—“DUKE”
Mgr. Salesroom



GEORGE L.
Mgr. Pet Stock Dept.
and Poultry Expert

Portland, Ore., January 1, 1921.

Greetings to Our Customers and Friends:

On this New Year's day we extend to all our customers and friends the "season's greetings." We wish you a very happy, prosperous and successful new year.

We have re-written and revised this catalog and made it right up-to-date. Some stocks have been discarded and others of increased value added.

Some prices are lower, others higher. Manufactured articles of wood and metal especially have not declined in price and cannot for another season at least.

In our line of business it is a matter of "Quality First," then prices as low as we can make them. We are catering to the planters, growers and poultry keepers that appreciate Highest Quality and good service. We are in close touch with the world's best markets and know that our "prices" and "quality" are right. Thousands of our customers testify to this. You will find their reports scattered throughout this catalog. Read the one on top of page 62. Our rapidly increasing business leads us to believe we are giving efficient service and satisfactory stocks.

We certainly appreciate the support given us and thank you sincerely for past orders, and hope that we will have the pleasure of serving you again this year.

Routledge Seed & Floral Co.

OFFICE AND SALESROOM, 145-147 Second St., between Morrison and Alder.

WAREHOUSE, Corner Union Avenue and Oregon Street.

U. S. PARCEL POST RATES AND REGULATIONS

BY PARCEL POST.—We do not have agents or traveling salesmen, but do a direct mail order business with our customers. This enables us to give you direct and personal attention, quick service and lower prices.

Size and Weight of Parcel Post Packages

Packages cannot be sent that measure over 84 inches in length and girth combined. The weight limit for the local, first, second and third zones is 70 pounds. The weight limit for the third to eighth zones is 50 lbs., except as follows:

ALASKA, MEXICO, CUBA, HAWAII, PANAMA and the PHILIPPINES take the 8th zone rate with a WEIGHT LIMIT OF 20 LBS. We do not pay postage in 7th and 8th zones.

CANADA takes the EIGHTH zone rate with a WEIGHT LIMIT OF 4 LBS. 6 OZS.

Zones

Postage Rates

First and second zone....	50 to 150 miles, first lb.	5c; each additional lb. or fraction	1c
Third zone.....	150 to 300 miles, first lb.	6c; each additional lb. or fraction	2c
Fourth zone.....	300 to 600 miles, first lb.	7c; each additional lb. or fraction	4c
Fifth zone.....	600 to 1,000 miles, first lb.	8c; each additional lb. or fraction	6c
Sixth zone.....	1,000 to 1,400 miles, first lb.	9c; each additional lb. or fraction	8c
Seventh zone.....	1,400 to 1,800 miles, first lb.	11c; each additional lb. or fraction	10c
Eighth zone.....	all over 1,800 miles, first lb.	12c; each additional lb. or fraction	12c

War Postage Tax.—Add the war tax of 1c extra for each 25c or fraction thereof required to cover postage. Don't forget.

When you order from Portland, look for the zone that corresponds to the number of miles you are away, add up total weight of your order, consult the table above and add postage.

ALL MISCELLANEOUS MERCHANDISE offered in this catalog THAT CAN BE SENT BY PARCEL POST is market P. P. and the PACKED WEIGHT is given so that extra money for POSTAGE can be remitted according to the table above, OTHERWISE we will send by freight or express. Read copy inside front cover.

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OUR FALL CATALOG READY ABOUT SEPTEMBER 1ST

Our Fall Catalog of Flowering Bulbs, Hardy Plants and Shrubs, Rose Bushes, Fruit, Shade and Ornamental Trees, Shrubs and Vines is issued about September 1st each season. If you would like a copy, make your request at any time and we will put your name on the mailing list for catalog in season.

ARTICHOKE

LARGE GREEN GLOBE.—The well-known French vegetable; the undeveloped flower heads, when properly prepared, make a most delicious dish. Pkt. 15c; oz. \$1.25

White Jerusalem.—Tubers grown for stock. See page 43.

ASPARAGUS

COLUMBIAN MAMMOTH WHITE.—Gives immense yield of large, clear, white shoots; very tender and of excellent flavor.

Pkt. 10c; oz. 20c; 4 oz. 50c; lb. \$1.25

PALMETTO.—Early, prolific; large, thick, dark-green shoots. Popular commercial variety.

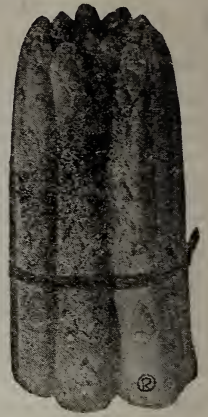
Pkt. 10c; oz. 20c; 4 oz. 50c; lb. \$1.25

CONOVER'S COLOSSAL.—A good, standard large sort of approved quality. Shoots bright green, very tender.

Pkt. 10c; oz. 20c; 4 oz. 50c; lb. \$1.25

ASPARAGUS ROOTS.

You can save two or three years' time by buying Asparagus Roots. For prices, see Vegetable Roots, page 115.



Asparagus Tips

GARDEN BEANS

DWARF OR BUSH

GREEN PODDED KINDS

Packet and single pound prices only are prepaid. Add postage to 10 lb. prices if wanted by mail.

STRINGLESS GREEN POD

This famous Bean is unequalled as a first-early; also for main crop.

It combines unusual hardiness, extreme earliness, and wonderful productiveness with handsome appearance and finest quality of pods.

By repeated plantings pods may be had in constant succession from spring until cut off by heavy frosts in the fall. The pods are of the finest quality, of a rich green, very round and almost straight, long, solidly meaty and plump. The pods are tender, brittle, and of finest flavor, always entirely stringless even when fully grown.

Large pkt. 15c; lb. 35c; 10 lbs. \$2.75.

LONGFELLOW—NEW

Longfellow is an extra early green podded snap bean, producing splendid crops of very long, round, straight, solid, fleshy pods, which are deliciously tender and brittle. The flavor is excellent. The plants are robust, without runners, and very productive. Try this.

Longfellow—New

Pkt. 15c; lb. 40c; 10 lbs. \$3.00



DWARF HORTICULTURAL

One of the best dwarf sorts for green shell beans for the home garden and market and can be used early as a green podded snap bean. The plants are very productive, pods broad and thick, with splashes of bright red on a yellowish ground. They become fit as green shelled beans early; are very large, easily shelled and are about equal to the Lima in quality. Excellent for canning.

Large pkt. 15c; lb. 35c; 10 lbs. \$2.50

EXTRA EARLY REFUGEE

Very hardy and extremely productive. Pods round and straight, tender and of excellent quality. Excellent as a snap bean and always in demand as a pickling and canning variety.

Large pkt. 15c; lb. 35c; 10 lbs. \$2.50

Market and Truck Gardeners should write us for special prices and state quality and kinds wanted. We'll save you money and you will get "Highest Quality" Seeds.

INOCULATE THIS
SEED WITH
MULFORD CULTURE

Beans — Continued

INOCULATE THIS
SEED WITH
MULFORD CULTURE

DWARF OR BUSH—YELLOW PODDED

PROLIFIC BLACK WAX

The earliest wax variety. Pods a rich, creamy yellow, round, fleshy, tender, stringless and remain in fit condition for some time. Enormously productive and of fine quality, and one of the most reliable early sorts for general use.

Large pkt. 15c; lb. 35c; 10 lbs. \$2.50

IMPROVED GOLDEN WAX

Medium early, heavy cropper, vine vigorous. May be sown early or late with the assurance of a good crop. Pods are golden yellow, fleshy and solid, brittle, waxy, texture and have an exceptionally rich buttery flavor. Excellent for home or market garden.

Large pkt. 15c; lb. 35c; 10 lbs. \$2.50



Prolific Black Wax

PENEIL POD BLACK WAX

Early and Stringless

The dwarf, bushy plants produce in profusion; beautiful, long, straight yellow pods that are well rounded, deeply "saddle backed," very meaty and solid. Rich and mild in flavor and entirely stringless.

Pkt. 15c; lb. 35c; 10 lbs. \$2.75

DAVIS KIDNEY WAX (See Cut)

The most hardy and productive wax bean. The pods are long, white, straight, crisp and tender. The vine is rustless and very vigorous, bearing the pods in clusters. For canning this is unexcelled on account of purity of the pod and bean. It is a remarkably good variety for shipping; seed white, and on this account it is desirable for a shelled bean in winter.

Large pkt. 15c; lb. 35c; 10 lbs. \$2.50

NEW BRITTLE WAX

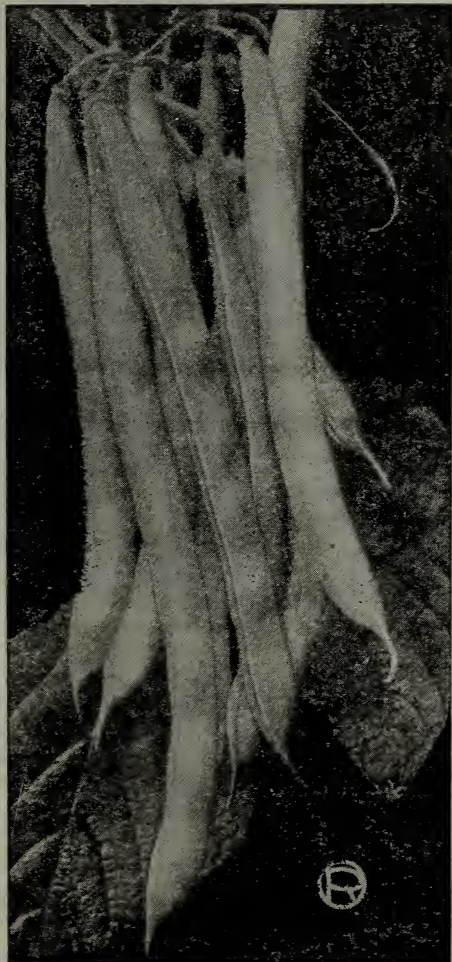
Extremely early and of such superb quality it might almost be called "Best of All." The plants are of vigorous growth, with large foliage, and appear completely loaded with handsome pods, which are nearly straight and very long. They are broad, fleshy, tender, "brittle" and entirely stringless at all stages of growth. The pods are unexcelled as snap-shorts. Seed white, showing only a small dark dot at the eye; any surplus allowed to ripen will be readily salable as winter shell beans.

Large pkt. 15c; lb. 40c; 10 lbs. \$3.00

WARDWELL'S KIDNEY WAX

A popular and well-known variety; pods long, golden-yellow, brittle and stringless; seed white, with dark markings about the eye. Market gardeners find this bean one of the most profitable.

Large pkt. 15c; lb. 35c; 10 lbs. \$2.75



Davis Wax

NEW BOOK—GARDEN GUIDE

The best book of its kind we have ever read, of real value. See Books, page 128.

DWARF BEANS—Continued

French Green (Haricots Verts)

A fairly good string bean when young, but it is a most delicious shelled bean, either green or dry. When a French cook sees this variety, he knows that he can prepare a most delicately flavored dish, attractive to the eye and extremely palatable. The dry bean is medium size, rather flat and light green in color, which is retained after cooking. Very distinct. A vigorous grower and extremely productive. This bean should be harvested before they get too dry and keep from sunlight to retain color. Seed scarce, stock limited.

Large pkt. 15c; lb. 40c

CLIMBING POLE BEANS

Packet and Single Pound ONLY are postpaid. Add postage if wanted in 10-lb. lots by mail.

Routledge Perfection "White Seeded" Pole Bean

Our start of this meritorious new variety was obtained from a few seeds brought over from England. It produces large, quick growing vines which soon cover the poles, bearing a very heavy crop of handsome green pods about 8 inches in length which are very meaty, stringless and of delicious flavor. The vines produce their pods very early and continue to bear immense quantities of snap pods throughout the season. Excellent for canning. The dry beans being white and of good size when allowed to ripen on the vines, make it an excellent soup or bake bean for winter use.

Large pkt. 20c; lb. 50c

Improved Kentucky Wonder (Asparagus)

A very popular variety; often sold as asparagus. More extensively planted than any other. Pods green, very long, round and perfectly stringless. Enormously productive and early, remaining in "fit" condition a long time. Unsurpassed for the table, being very tender and of delicious flavor.

Large pkt. 15c; lb. 35c; 10 lbs. \$2.75

Kentucky Wonder Wax

The best wax podded pole bean. Very similar to the green podded Kentucky Wonder but the pods are a little broader. They are very fleshy and stringless as snaps and are of excellent quality. The pods are very long, handsome light yellow. Seed medium sized, oval, flattened, very irregular, usually somewhat shriveled, dark brown. Its earliness and hardness commend this as a pole bean well adapted for northwestern latitudes.

Large pkt. 15c; lb. 40c; 10 lbs. \$3.25

Harlequin—New

The finest pole horticultural variety in cultivation and on account of its wonderful productiveness and superior quality takes first rank as a late Shell Bean. The strain we offer is an especially fine one. Pods extra long, 6 to 7 inches, brilliantly colored with crimson carmine and are borne in clusters. Unequaled for tenderness and delicious flavor, either shelled or as snaps. Dry beans a little larger and a trifle longer than the old Horticultural Pole.

Large pkt. 20c; lb. 50c

Lazy Wife

One of the best of the late green podded pole beans for snap or green shell use. The medium green pods, borne in large clusters, are five to six inches long, broad, thick, fleshy and entirely stringless. When young they have a rich, buttery flavor which is retained until they are nearly ripe. The dry beans are excellent for winter use. The seed is white, medium size, slightly oval or nearly round.

Large pkt. 15c; lb. 35c; 10 lbs. \$2.75

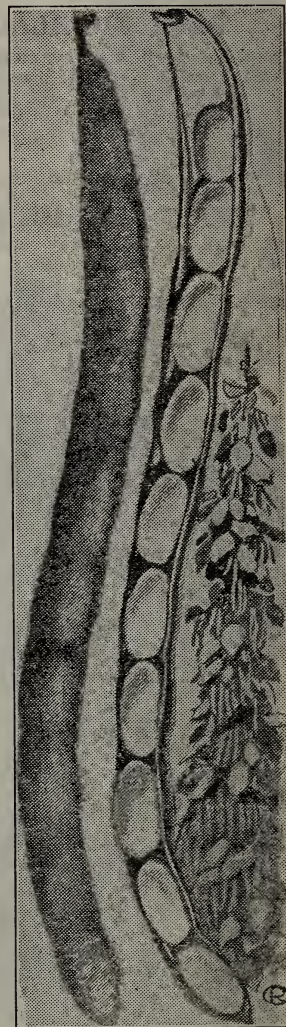
Horticultural Pole

Speckled Cranberry or Wren's Egg.—Vines vigorous, quite early. Pods short, broad, green streaked with bright red. Beans are round, splashed and spotted with red. Of fine quality, either as a green Shelled Bean or dry for winter use.

Large pkt. 15c; lb. 35c; 10 lbs. \$2.75

Scarlet Runner

Grown extensively for ornamental purposes, as flowers are a most brilliant scarlet and borne profusely; beans are broad and flat, and of fine flavor when cooked, same as Lima beans. Large pkt. 15c; lb. 40c



Kentucky Wonder
Asparagus

McMinnville, Ore., Dec. 2, 1919.

Routledge Seed & Floral Co.

Dear Sirs: The Lima (Oregon Pole) Beans did fine under the conditions of weather and soil plus care. I know that they can be produced here profitably.

Thanking you for this kindness, I am,

Yours truly,

ARTHUR H. SCHOENBERGER.

Hillsboro, Ore., March 4, 1920.

Routledge Seed & Floral Co.

Dear Sirs: The Baby Chicks came through in good shape, and am well pleased with them.

Yours truly,

J. C. ROGERS.

Although pole beans require a little more care and labor, they are, when properly grown, usually of longer bearing period than the dwarf sorts and are much more productive.

Commercial Dry Table Beans

Beans will grow successfully on most any kind of soil, but they will do better and yield heavier on soil that is mellow, well drained and warm. Land that will produce good corn or wheat will grow good beans. Sandy river bottom is especially good.

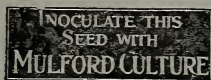
PLANT TRUE PURE SEED.—It certainly pays to secure a clean, true seed stock. Don't plant any common stock, even though it looks all right. You cannot tell by looking at it whether it is early or late, or acclimated.

The stocks we offer are of known varieties, acclimated and hand-picked and grown especially for seed—by far the safest, best and most profitable in the end, even though it costs a little more at planting time.

Brown Swedish

Dry beans, rather small size, round, oblong, light golden brown with a white eye. As a cooking or baking bean the quality is very superior, having a richness and flavor all its own. Our customers who planted it last spring praise it very highly. They say on account of its excellent qualities, they prefer it for their own table use. It is unusually productive, pods long and straight and always well filled. Bush strong, healthy and vigorous. Crop matures early. Pkt. 15c; lb. 25c; 10 lbs. \$2.00

To insure the greatest success



See page 41.

IMPROVED TREE BEAN

Early, Wonderfully Productive

Of all the varieties we have tested we believe this is the best and most profitable white field bean for Oregon from the reports we have had from those who have planted it. On account of its snowy whiteness and uniformly small size, it commands the highest price in all markets. The plants grow upright, have less foliage than most varieties and hold the pods well up from the ground, thus keeping the beans from getting dirty and discolored. The pods are very freely produced, are long and well-filled. The dry bean is small, white, plump and almost round. Cooking and eating qualities are unsurpassed. The whole crop will ripen early and evenly and you can get it safely harvested before the rainy season sets in. Our stock of this particular strain is rather limited, so order early.

We will appreciate reports from all who plant it.

Prices: Large pkt. 15c; lb. 25c; 10 lbs. \$2.00; 25 lbs. \$4.50.

Lady Washington

A great improvement over the old "Navy," for Western Oregon and Washington growers, as it is much earlier, a trifle larger, and a very heavy yielder, especially adapted to western conditions. The pods all ripen together and early enough to harvest before winter rains. Bean pure white and of excellent quality. Growers report our stock very superior.

Large pkt. 15c; lb. 25c; 10 lbs. \$1.75

Write for quantity prices.

Broad Windsor

An English variety; large, broad, flat beans of delicious flavor; used as a shell bean. Good for hog pasture; very hardy and very productive.

Large pkt. 15c; lb. 25c; 10 lbs. \$2.00

Write for low prices by the hundred lbs. back cover.



Improved Tree Beans

Gardiner, Ore., Sept. 16, 1920.

Routledge Seed & Floral Co.

Gentlemen: This is to say that in the past two years we have used a considerable quantity of your seeds and have received a number of shrubs from you.

Your seeds have given general satisfaction and we have been pleased with the quality of your other products and the care you exercise in packing. We have learned to feel a pronounced measure of security in following your advices in the matter of corrections of variety and quality of products.

Respectfully,

C. J. HOWARD.

Boston Yellow Eye

A bean of merit. Try it. Almost every one who has lived in New England knows the Boston Yellow Eye Bean and prefer them to any other Bean for cooking, as they possess a richness and flavor known to no other variety. As a shell Bean they are delicious, and for cooking in a dry state they have no equal. The dry Bean is almost round, plump and of a beautiful light-brown with a yellow eye. We strongly recommend the planting of the Boston Yellow Eye. Once used, they are always wanted.

Large pkt. 15c; lb. 25c; 10 lbs. \$2.00

Red Mexican

An excellent dry bean for winter use. Used extensively for baking and Spanish dishes. We offer select, hand picked, Oregon grown, acclimated seed.

Large pkt. 15c; lb. 25c; 10 lbs. \$2.00

FOR LIMA BEANS SEE PAGE 8.

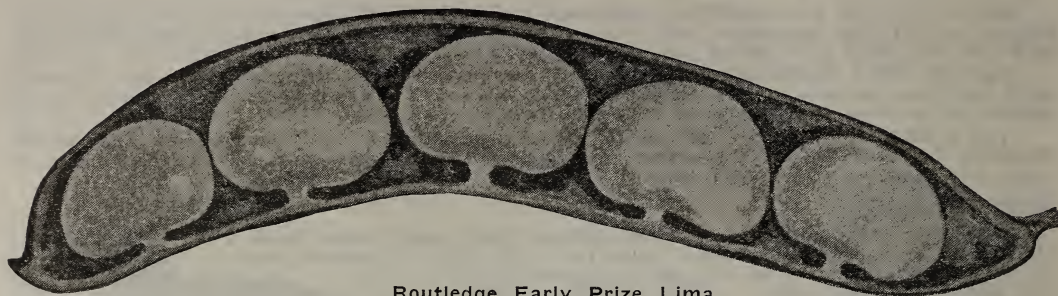
Castor Bean

Used for medicinal purposes and by some claimed to keep moles away. Ornamental foliage, 4 ft.

Large pkt. 15c; lb. 50c

For seed tables, quantity per acre, see inside

BEANS — Continued



Routledge Early Prize Lima

Pole Limas

Of all the pole beans, limas are considered to have the greatest economic value. The culture is the same as for other pole beans except that being more tender, the seed is usually planted one to two weeks later.

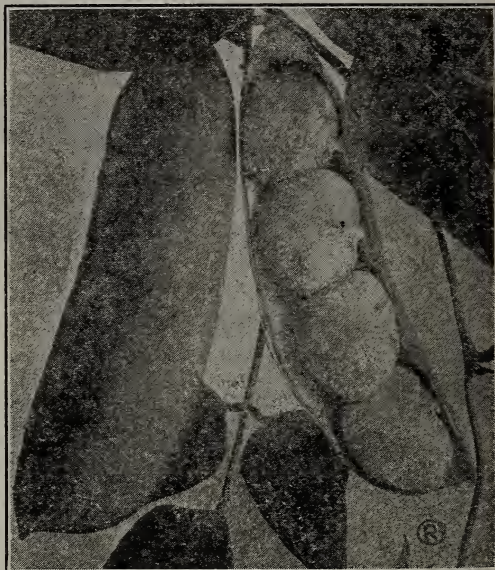
Routledge Early Prize Lima

An imported variety procured at the same time as Routledge Perfection 'snap' bean. By careful selection we now offer a strain fully two weeks earlier than "Oregon." It will actually mature a full crop of dry beans in the early fall. In earliness, ease of shelling, size, beauty and quality of the dry beans, this variety leads all other early Limas for either the home garden or market. The vines are vigorous and remarkably productive. The extra long, large, flat, moderately curved pods are well filled. The green shell beans are very large, very tender and of finest quality. It has the rich, buttery flavor, always desired but seldom found. Gardeners will make no mistake in testing this new, extra early Lima.

Large pkt. 20c; lb. 55c

Oregon Pole Lima

Excellent for the Northwest. Strong, vigorous grower. In July the blooms come in long panicles from the top shoots and the large, broad pods are freely produced until frost. The large, plump, white beans are of delicious quality, green, shelled or dry. They



Burpee's Improved Bush Lima

are in "prime condition" when the pods begin to turn yellow. Oregon grown, acclimated seed.

Large pkt. 15c; lb. 40c; 10 lbs. \$3.50

DWARF OR BUSH LIMA

BURPEE'S IMPROVED BUSH LIMA.—Best of the Bush Lima type. Very large, broad pods, excellent flavored beans, borne on large vigorous plants. Extremely prolific. Pods contain from four to six very large beans of greenish white color.

Pkt. 15c; lb. 50c; 10 lbs. \$4.25

BRUSSELS SPROUTS

The plants, which are very hardy, grow two or three feet high, and produce, from the sides of the stalks, numerous little sprouts, which resemble very small cabbages one or two inches in diameter. The leaves should be broken down in the fall, to give the little heads more room to grow. They should be treated in all respects like winter cabbage or kale.

PERFECTION OR DALKEITH.—Plants are of dwarf growth and stems are thickly set with large, solid sprouts. This variety is very hardy and even during quite severe weather, the plants maintain their sprouts; in fact, the flavor and quality is much improved by frost. Pkt. 10c; oz. 35c; 4 oz. \$1.00



Brussels Sprouts

CHIVES.—See Vegetable Roots, page 37.

TABLE BEETS

Routledge Favorite

The best of all for home gardens. A re-selected strain of Crimson Globe. Perfectly globe shaped, with a single tap root, and of the richest color of any of the beets. It is early and a splendid keeper, is not excelled in yielding qualities, is exceedingly tender, fine and sweet and is unequalled for table use. Market gardeners will find our Favorite very profitable as no other sort approaches it in attractiveness or quality.

Pkt. 10c; oz. 20c; 4 oz. 60c; lb. \$2.00

Crosby's Egyptian

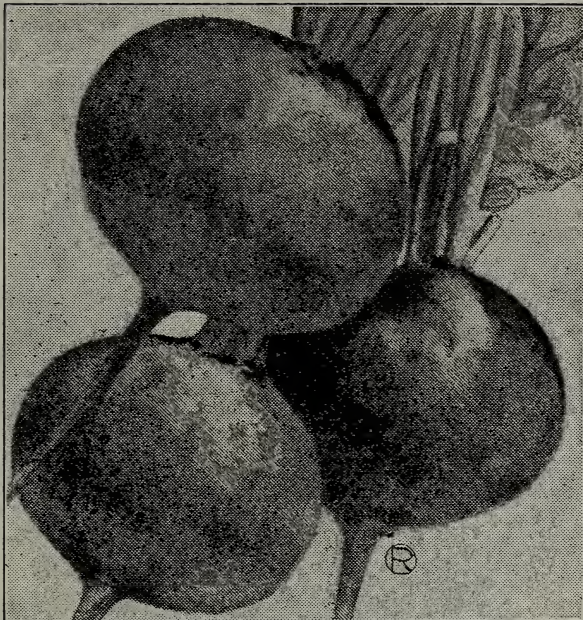
Very popular, extremely early beet, as it reaches the desired size quickly. The beets are of good size, rather flat than round, flesh rich vermilion red, very attractive.

Pkt. 5c; oz. 15c; 4 oz. 45c; lb. \$1.25

Detroit Dark Red

Excellent variety, nearly globular, dark skin and rich red flesh, maturing early and keeping crisp and tender for a long time. Very popular with market gardeners.

Pkt. 5c; oz. 15c; 4 oz. 45c; lb. \$1.25



Routledge Favorite

Improved Early Blood Turnip

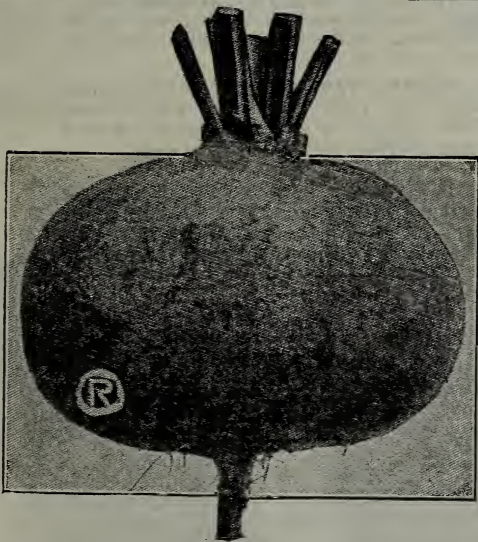
This is the ideal beet for market gardeners. It is very symmetrical, with small tap root and but few fibrous roots; color outside is deep blood-red; fine grained and unsurpassed in quality. It continues to grow until late in the fall, attaining a large size and making a good selling and eating beet for winter.

Pkt. 5c; oz. 15c; 4 oz. 45c; lb. \$1.25

EDMAND'S BLOOD TURNIP

Unsurpassed for late planting; deep blood-red flesh, very tender and juicy, runs very evenly in size and quite round; grows a small top.

Pkt. 5c; oz. 15c; 4 oz. 50c; lb. \$1.50



Improved Early Blood Turnip

Swiss Chard

Luccullus "Spinach Beet"

This does not make edible roots like the regular garden beets, but is grown for the broad white leaf-stalks, which are bunched and cooked in the same manner as asparagus. The young leaves may be gathered also and cooked like spinach. Makes a delicious summer vegetable.

Pkt. 10c; oz. 20c; 4 oz. 60c; lb. \$2.00

HALF LONG BLOOD.—Becoming more and more popular. Excellent in shape and quality; yields well.

Pkt. 5c; oz. 15c; 4 oz. 50c; lb. \$1.50

LONG BLOOD.—The root is smooth and handsome, flesh brilliant in color and excellent quality. Good keeper.

Pkt. 5c; oz. 15c; 4 oz. 50c; lb. \$1.50



Swiss Chard

OUR GARDEN CULTIVATORS are priced very low and will save you much work in the garden. See pages 119 and 120.

Stock Beets or Mangels

Excellent winter feed for horses, cattle, sheep, hogs and chickens. Farmers and stock raisers of the United States do not appreciate so fully the value of Mangels for feeding cattle, hogs, sheep, etc., as do the farmers of Europe. In France, Great Britain and other European countries, it is the exception rather than the rule where Mangels are not grown on a large scale on every farm. The immense yield which may be secured from an acre, with very little expense either for material or labor, makes the Mangel crop one of the most profitable on the farm. Fifteen to 20 tons of roots an acre is not an unusual yield; some specimens weight 20 to 30 lbs. each. Where properly cultivated, seeded and harvested the cost of growing a bushel should not exceed 10c. When fed in combination with grain they are worth almost as much, pound for pound, as the grain. This statement may seem absurd, but experience has proved that Mangels so aid digestion and assimilation by keeping the animals in a healthy condition, that they increase the feeding value of other feeds consumed, beside the nutrients the roots contain. Every farmer and poultryman should raise Mangels.

Giant Yellow Eckendorf

A new mangel of great merit. The roots are smooth, long and cylindrical in shape, very heavy, weighing up to 15 and 20 pounds each; grow two-thirds above ground. The flesh is firm, crisp and solid, white in color and of high feeding value. (See cut.)

Pkt. 5c; oz. 10c; 4 oz 30c; lb. 65c

Giant Half Sugar Mangel

Yields as much per acre as the best Mangels, and twice as much per acre (bulk of roots), as the rich sugar beet. Roots grow very large above the ground. Smooth, creamy white in color and very nutritious. Easily pulled. (See illustration No. 1.)

Pkt. 5c; oz. 10c; 4 oz 30c; lb. 65c

Mammoth Long Red

Very popular and much used. A large and heavy cropper. Dark red skin, with whitish flesh; grows one-half or more above the ground; roots quite regular; attain a very large size. (Same shape as No. 2.)

Pkt. 5c; oz. 10c; 4 oz. 35c; lb. 70c

NOTE.—In 10-lb. lots, 10c per lb. less; write for quantity prices.

Danish Sludstrup

An improved variety, considered one of the best. Awarded first class certificate. Color, reddish yellow, and of a distinct type. It is very hardy, grows well above ground; is easily pulled and very nutritious. (See cut.)

Pkt. 5c; oz. 10c; 4 oz. 30c; lb. 75c

Golden Tankard

An enormous yielder of weight per acre, and at the same time very nutritious; flesh deep-yellow, of fine shape, growing largely above ground, thus being easily harvested. (Same shape as cut No. 3.)

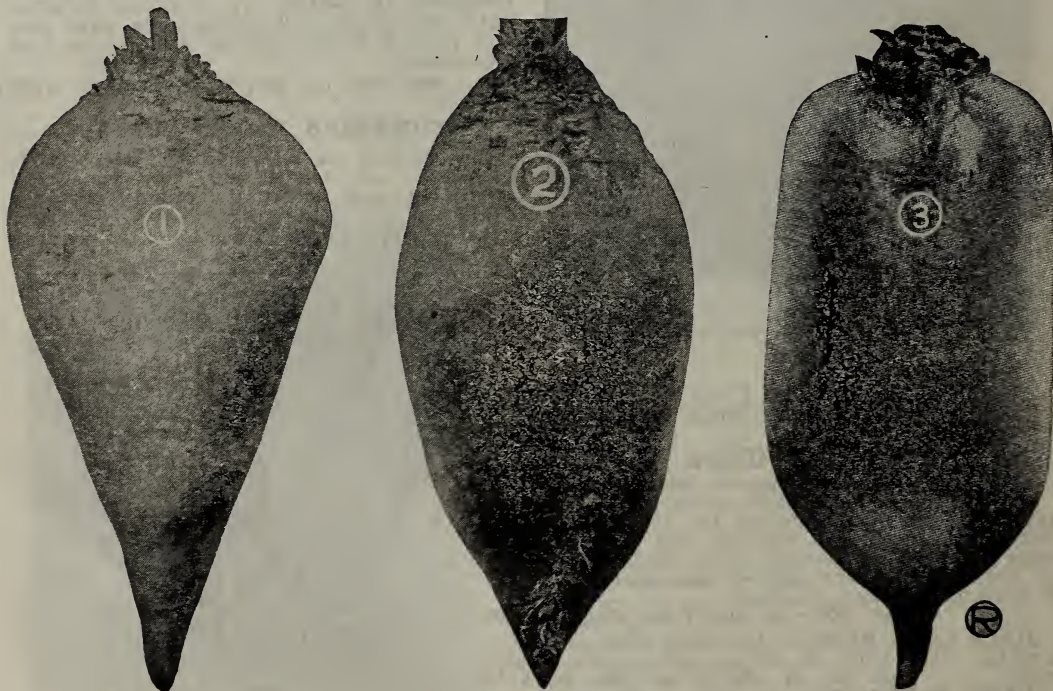
Pkt. 5c; oz. 10c; 4 oz. 30c; lb. 75c

SUGAR BEETS

Pkt. 10c; oz. 15c; 4 oz. 40c; lb. \$1.00

FRENCH WHITE SUGAR.—The sugar beet most generally grown for stock, as it combines with heavy yield, from 10 to 13 per cent of sugar.

KLEIN WANZLEBEN.—The most popular for table and for sugar production. Tops rather large and slightly waved.



(1) Giant Half Sugar

(2) Danish Sludstrup

(3) Giant Yellow Eckendorf

Write for quantity prices. For amount of seed per acre, any kind, see "Seed Table," inside back cover.

BROCCOLI — Winter Cauliflower

Forms a head like cauliflower, but is much hardier; stands wet and cold better and gives excellent results. For fall use sow from March to May; for winter and spring cutting, May to July. Very extensively planted by our local market gardeners for use in the late fall, winter and spring when cauliflower is out of season. Plant and cultivate same as cauliflower.

St. Valentine

Well and favorably known and extensively planted by the large commercial growers. Produces large, solid, white heads. Season, February and March.

Ordinary Stock, pkt. 10c; ¼-oz. 25c; oz. 75c; 4 oz. \$2.50.

Routledge "H. Q." St. Valentine

In this seed, we are offering our customers a very select, high-grade strain of the well-known St. Valentine. By selecting only the most perfect heads, those showing the most desirable leaf formation for the protection of the developing head and those of large size and perfect compact heads free from small center head leaflets, we have produced this superb strain. Our H. Q. St. Valentine produces larger, later and far better heads than the best imported English seed, and is much superior to seed produced from other sources that there is no comparison. "H. Q." seed will produce the highest per cent of perfect heads and bring the "top" price.

Every ounce of our H. Q. St. Valentine seed we are offering this year is from just such perfect heads as shown herewith. Our seed of this particular lot is quite limited, so order early.

H. Q.: Pkt. 15c; ¼-oz. 50c; oz. \$1.50; 4 oz. \$4.50; lb. \$15.00



"H. Q." St. Valentine Broccoli



Front leaves broken down to show formation of growth.

Sutton's Late Queen

Quite distinct, dwarf and compact in growth, rarely affected by frost, and when planted late produces splendid heads the following spring. Has successfully passed through most severe winters. Heads well protected, large, handsome, excellent quality. (Imported seed.)

Pkt. 10c; ¼-oz. 35c; oz. \$1.00

White French

A valuable early variety, large white heads of good quality. Hardier and of the same season as summer cauliflower.

Pkt. 10c; oz. 75c; 4 oz. \$2.50

Puyallup, Wash., Aug. 7, 1920.

Routledge Seed & Floral Co.

Gentlemen: We ordered all our garden seed from you this spring and will say that a finer lot I never saw, as I believe every seed put in the ground grew.

MRS. JOHN GIESY.

FREE BULLETINS AND PAMPHLETS on general gardening and many special crops, also spraying, etc., are issued by the Oregon Agricultural College at Corvallis, Ore. These are sent free on request. We advise our customers to secure them. **THEY ARE OF GREAT VALUE.**

"Highest Quality" CABBAGE True and Pure

Our Cabbage Seeds come from the world's best growers—pure, true strains, of highest quality. One ounce will produce over 3,000 plants. One-quarter pound of seed will produce plants sufficient for one acre, therefore, don't practice false economy by buying cheap, low-quality seed. There is a great amount of inferior, poorly grown, mixed cabbage seed on the market this year. Beware of low prices.

READ THIS.—We pay our growers more for the quality of seed we offer you than some seedmen retail it at. There's a reason. The best is cheapest in seeds.

Early Jersey Wakefield

The earliest and hardiest heading of first early cabbages. Most gardeners depend upon it for the bulk of their extra early crop. Its exceeding hardiness not only to resist cold but other unfavorable conditions, insures the greatest likelihood of profitable and satisfactory results. Our stock is grown and selected with the greatest care; there is none better, and few as good. Head conical, very compact, solid and of excellent quality. The thick, stout leaves and compact habit makes it the best sort for very early setting. **HIGHEST QUALITY SEED.**

Pkt. 10c; oz. 50c; 4 oz. \$1.50; lb. \$4.50

R. S & F. Co.'s Oregon Wakefield

A larger, most remarkable and valuable strain of Wakefield. It has the same general characteristics of other Wakefield cabbages, the heads being conical with a rounded or blunt point. It is, however, far superior to other strains, being nearly double the size and of better quality, and at the same time is almost as early. It has few outer leaves, permitting close planting.

Pkt. 10c; oz. 50c; 4 oz. \$1.50; lb. \$4.50
Ashland, Ore., Aug. 6, 1920.

Routledge Seed & Floral Co.

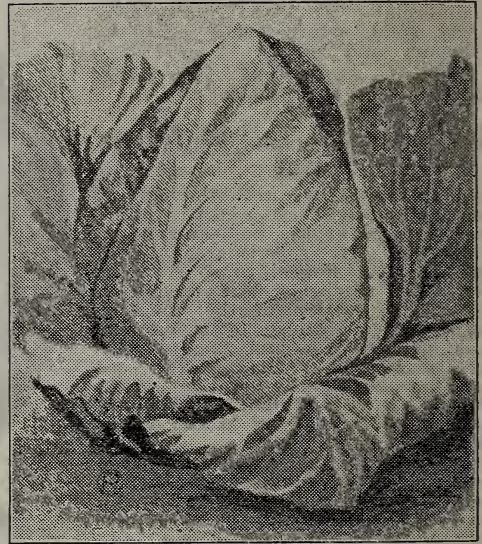
Dear Sirs; Last year I sent several places for seeds, but was best pleased with your seeds, so will send my entire order to you this season.

Respectfully,
I. D. LESLIE.

EARLY WINNINGSTADT

One of the best for general use, being very hardy, sweet, fine quality, and sure to head. Head regular, conical, very hard and keeps well both summer and winter. It is the hardiest, not only as regards frost, but will suffer less from excessive wet, drought, insects or disease than any other second early sort.

Pkt. 10c; oz. 50c; 4 oz. \$1.50; lb. \$4.50



Early Jersey Wakefield

Copenhagen Market

The earliest large round-headed cabbage yet introduced. Sure to head and every head perfect. The plant is of vigorous habit but compact, with short stem and few outer leaves which are of rather upright growth. The leaves are medium light green, nearly round, comparatively thick and smooth. The heads are round, very solid and of exceptionally good quality. Its earliness, compact growth, uniformity and size of head, firmness and most excellent quality combine to make Copenhagen Market the most valuable cabbage of recent introduction. We recommend it unreservedly. Worth the additional price.

Pkt. 10c; oz. 60c; 4 oz. \$2.00; lb. \$6.00



Use Mag-o-tite when planting cabbage, kale, broccoli, cauliflower, radish, turnip, onions or root crops to prevent their injury or destruction by root mag-gots or grub worms.

Sure preventive; non-injurious; a stimulant. See page 121.



CABBAGE — Continued — Late Varieties

Wong Bok—Pe-Tsai

Or Chinese Cabbage

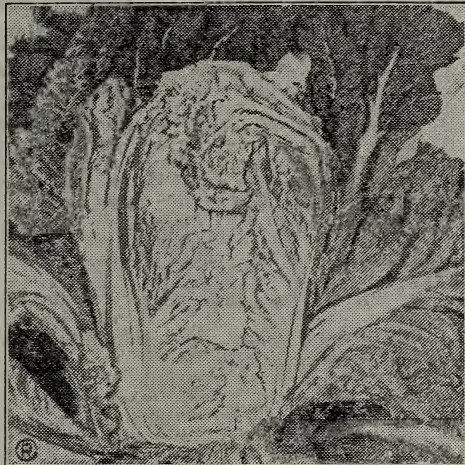
Chinese or Celery Cabbage has attained great popularity in the last two years.

We offer the true Pe-Tsai or Chinese Cabbage, which has been known and cultivated in China for many years. While practically unknown in many markets, the Chinese gardeners of the Pacific Coast have successfully cultivated it for years.

Pe-Tsai produces beautiful, crisp, celery-like heads that blanch easily and that resemble a giant Cos Lettuce. As a salad it rivals the finest lettuce, while cooked like cabbage or spinach it makes a delightful "greens."

Pe-Tsai will not stand heavy frosts, so that heads intended for winter use should be dug and stored in a cool cellar.

Plant seed from June to August thinly in drills or grow like late cabbage and transplant to 1 foot apart in rows. When grown it can be blanched like celery by tying or wrapping up. Pkt. 10c; oz. 50c



Wong Bok

Pe Tsai

Danish Round Head

An earlier short-stemmed strain of the famous Danish Ball Head.

Large and very solid round head on short stems, having the same keeping quality as the original strain of Danish Ball Head, so widely known. It is 10 days to 2 weeks earlier and produces larger yields. It is especially valuable for high, dry land, producing good sized heads where other strains would be too small. For shipping in the late fall or winter there is no finer cabbage. Our seed of Danish Round Head comes direct from the originator in Denmark and is of the Highest Quality.

Pkt. 10c; oz. 60c; 4 oz. \$2.00; lb. \$6.00

Premium Late Flat Dutch

A low growing variety; heads large, bluish-green; round, solid, broad and flat on top; an excellent fall and winter variety, and a good keeper. It is a sure header. Our stock has been grown from carefully selected heads, and we consider it superior to any other strain of Flat Dutch cabbage on the market.

Pkt. 10c; oz. 40c; 4 oz. \$1.25; lb. \$4.00.

Perfection Drumhead Savoy

A variety that is much prized by those who are familiar with it. It is very sweet and crisp, and always tender. Heads medium size and compact, with densely and uniformly crimped or savoy leaves.

Pkt. 10c oz. 50c; 4 oz. \$1.50; lb. \$5.00.

Mammoth Rock Red

Best hard-headed, red variety; large heads, globular, and very deep red on top. Very tender and excellent quality fine for cold salads on account of its attractive color.

Pkt. 10c; oz. 50c; 4 oz. \$1.50



Danish Ball Head or Hollander

Danish Ball Head—True, Highest Quality Seed

Most remarkable late cabbage yet produced, heads hard and solid—fine grained and tender. Entirely distinct. Exceedingly hardy in resisting cold and wet weather. We offer true, pure seed of the very finest medium short stemmed type. Famous for its hard-heading qualities, which at once recommends it as highly valuable for shipping. The magnificent heads are round in form and keep in excellent condition during winter coming out in the spring perfectly solid.

Pkt. 10c; oz. 60c; 4 oz. \$2.00; lb. \$6.00

DO YOU SEND EAST for your Seeds? Here's where you sell your products.

It's bad policy. Spend your money on this Coast. Our Seeds are highest quality.

CARROTS

ROUTLEDGE MODEL—CORELESS

The finest early table variety grown. Handsome, meltingly tender and sweet.

This new carrot is our own strain, grown from the French carrot, Nantes. You will be delighted with the melting tenderness and sweet, mild flavor of Routledge Model.

It is a half-long cylindrical carrot, blunt pointed, with a small tap root and small top. They run very uniform in shape and grow just the right size for table use. The flesh is of fine texture, entirely devoid of stringiness, coarseness and woody heart; color orange-scarlet, very attractive when served.

Pkt. 10c; oz. 25c; 4 oz. 60c; lb. \$2.00

Grand Ronde, Ore., March 5, 1920.

Routledge Seed & Floral Co.

Gentlemen: I have been buying my garden seed from you for the last three years. One thing I can say, is that your Beet Seeds are great. I raised one Beet just two foot eleven inches around it, weight 18½ lbs., and a dozen or more two foot around. They are all right. Other seeds have been good, too.

Yours truly,

OWEN DORAN.

Early Scarlet Horn

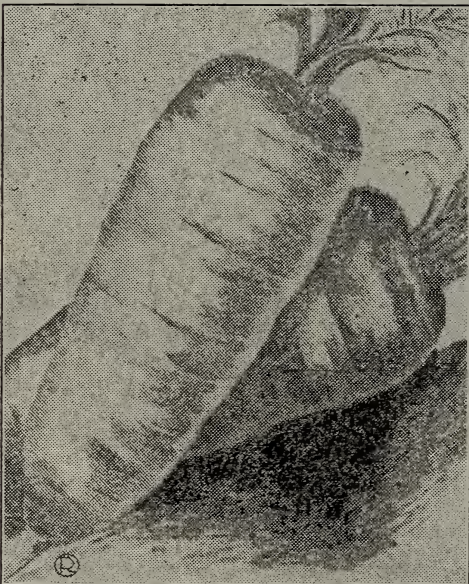
May be planted very early in spring, and is an excellent summer variety. Tops small and roots grow about 3 inches long, reddish-orange and good flavor.

Pkt. 10c oz. 20c; 4 oz. 40c; lb. \$1.25

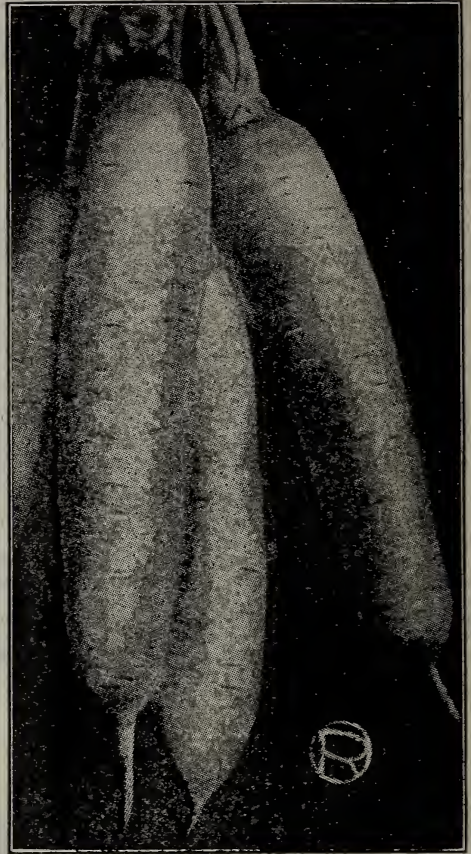
Chantenay

The Market Gardener's Favorite.—Tops medium sized, necks small, roots tapering slightly, but uniformly stump-rooted and smooth; color deep orange-red; flesh very crisp and tender; medium early; a heavy cropper.

Pkt. 10c; oz. 20c; 4 oz. 40c; lb. \$1.25



Chantenay



Routledge Model—Coreless

ROUTLEDGE MAMMOTH, next page.

Danver's Half-Long

A great favorite; big cropper; the roots are smooth and handsome, medium size, tapering uniformly to a blunt point and of a rich, dark orange; fine for table. On account of its productiveness it is a profitable variety to grow for stock feeding.

Pkt. 5c; oz. 15c; 4 oz. 45c; lb. \$1.10

Long Orange Improved

The best of the long carrots, especially for stock; color bright-orange, with long, tapering roots, requiring a deep soil.

Pkt. 10c; oz. 20c; 4 oz. 50c; lb. \$1.00

Guerande, or Oxheart

Bright orange, broad at the top and terminates abruptly in a small tap root. Length about 4 to 5 inches; excellent for shallow soils.

Pkt. 5c; oz. 20c; 4 oz. 40c; lb. \$1.10

Large White Belgian

Extensively grown for stock feeding; roots white; green above ground and growing to a large size; flesh rather coarse. A good cropper.

Pkt. 5c; oz. 15c; 4 oz. 40c; lb. \$1.00

DAD'S ELECTRIC LANTERN.—A Penetrating, Bright Light. The best and safest light for the farmer. No matches or danger of fire around the barns. See page 129.

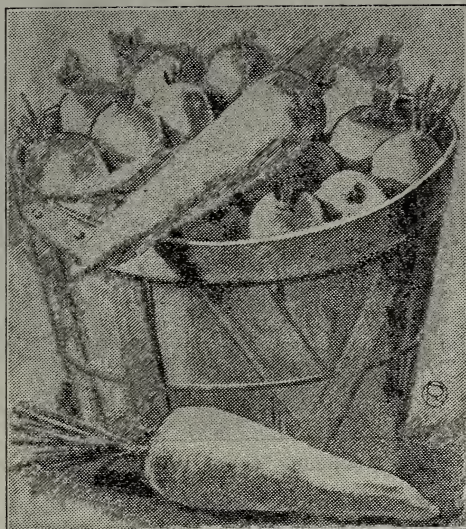
CARROTS — Continued

Routledge Mammoth Stock Carrot

The heaviest cropping carrot grown, yielding more tons to the acre than any other sort. The flesh is yellowish-white, crisp and solid, and very sweet in flavor. It is a vast improvement on the Belgian sorts, which have been favorites in the past, as it is not only much more productive, but vastly easier to handle. The roots are short and very heavy at the shoulder, rendering them easily harvested. Too much can scarcely be said of their size and great productiveness. Every farmer should grow a good supply of carrots for winter feed and Routledge Mammoth is the kind to plant. Yields reported from 20 to 50 tons per acre.

Large pkt. 10c; oz. 20c; 4 oz. 50c; lb. \$1.50; 2 lbs. enough for one acre, \$2.50.

GARDEN GUIDE Worth Many dollars to any gardener. We think it the best book we have ever read. See Book list on page 128.



Routledge Mammoth

Highest
Quality

CELERY

Plants
Page 37

R. R.'S WHITE PLUME

Our Leading Early White Celery.

A handsome, crisp sort, of very easy cultivation. Naturally its stalks and portions of inner leaves and heart are white, so that by tying or by simply drawing the soil up against the plant and pressing it together, the work of blanching is completed. It is the earliest celery known, delicious and fine flavored.

Pkt. 10c; oz. 35c; 4 oz. \$1.00

PARIS, GOLDEN SELF-BLANCHING

The finest strain of French grown seed. This splendid variety is without doubt the most popular celery grown. It is a self-blanching sort, for with a little banking or covering, even the outer ribs assume a beautiful golden-yellow, while the heart or vine stalks are deliciously tender, brittle and sweet. This variety is being very extensively grown on account of its ease of cultivation and superior quality. It is not quite so early as the White Plume.

Select quality: Pkt. 15c; ¼ oz. 35c; oz. \$1.00; 4 oz. \$3.50.

Golden Yellow Self-Blanching

Same variety of celery as above, but is American grown. It is equal to most seeds offered, but not as true, dependable or of such high quality as the French grown stock.

Pkt. 10c; oz. 50c; 4 oz. \$1.50; lb. \$5.00

Giant Pascal

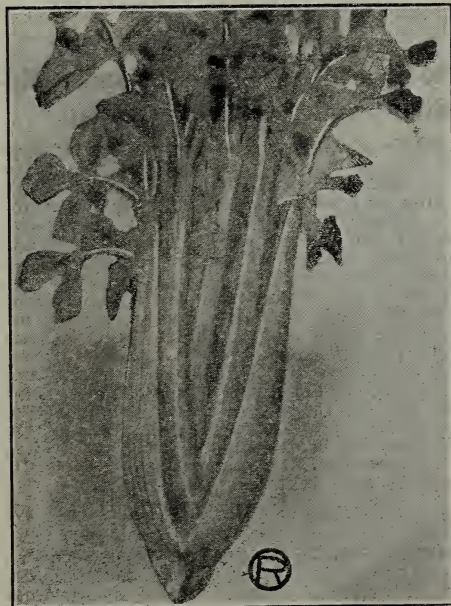
Excellent for fall or winter use, and has increased in popularity every year. A large tall grower of the finest nut flavor, being free from any bitter taste. Very broad stalks, blanching very quickly with little banking up; an admirable keeper.

Pkt. 10c; oz. 35c; 4 oz. \$1.00

Winter Queen

One of the best winter varieties, and highly recommended. It is tall and forms a large bunch. The leaves are light-green.

Pkt. 5c; oz. 30c; 4 oz. 75c

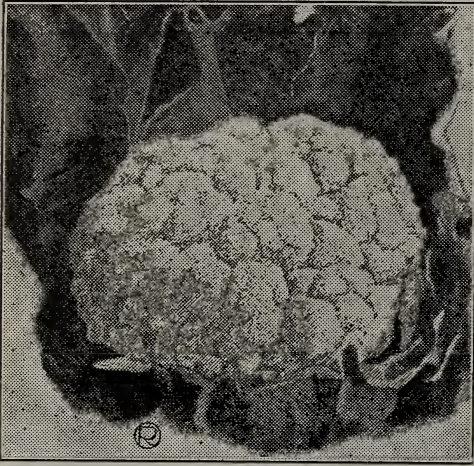


Paris Golden Self-Blanching

CELERICAC

Turnip Rooted Celery, see page 19.

"Highest Quality" CAULIFLOWER Plants, Page 37



Routledge Snow White

ROUTLEDGE "SNOW WHITE"

The Finest Cauliflower Grown.

In competition with all other strains, this cauliflower has won the approval of critical gardeners, being early and also the best main crop sort grown. It is suitable not only for early use, but is superior for late planting. The heads are compact, firm and solid, and do not spread as do some of the inferior sorts. No other equals it in purity of color, being clear snow white. It is equally desirable for family use and for the market garden. The heads are large—from 9 to 12 inches in diameter. Very resisting against unfavorable seasons and dry weather, the foliage giving a splendid protection.

Pkt. 25c; ¼-oz. \$1.50; ½-oz. \$2.50; oz. \$4.50

EARLY SNOWBALL

This variety is much in demand by market gardeners. Its earliness, compact habit, large-sized heads and snow-white color recommend it to every grower as a variety of especial merit. We have an extra selected stock of this sort, and recommend it with the greatest confidence.

Pkt. 20c; ¼-oz. \$1.25; ½-oz. \$2.25; oz. \$4.00

NEW CALIFORNIA WONDER.—A late variety, forming good, large, solid heads during the winter. This variety has given great satisfaction in Oregon and California, wherever tried.

Pkt. 15c; ¼-oz. 50c; oz. \$1.50; ¼-lb. \$5.00

ALGIERS.—A very strong growing late variety, with large leaves of a bluish cast. In cool locations and rich soil it produces very large, solid, white heads late in the fall.

Pkt. 15c; ¼-oz. 75c; oz. \$2.25; 4 oz. \$6.00

EXTRA EARLY SNOWBALL (Extra Selected).—This is the choicest selected strain of the popular Erfurt type, and is remarkable for its extreme earliness and reliability in heading. Medium size heads. Plants quite dwarf.

Pkt. 20c; ¼-oz. \$1.25; oz. \$4.00

VEITCH'S AUTUMN GIANT.—A large, late variety, very hardy. The heads are well protected by the foliage, enabling it to resist unfavorable climatic conditions.

Pkt. 10c; ¼-oz. 50c; oz. \$1.50; 4 oz. \$5.00

CHICORY

Witloof—Called also "French Endive" and "Christmas Salad"

Heretofore large importations have been made, but it is easily grown here. Plant the seed in the spring in drills, 12 inches apart, and thin out to 3 or 4 inches apart in the row. About November pull up the roots, break off the leaves, side shoots if any, and small root end so that the roots are not over 10 inches long. At once, or later as you get time, dig a trench about 18 inches deep and reset these trimmed roots crowns up, placing them about 1½ inches apart. Cover with loose, rich soil; the roots should be set in the trench so that the top will be covered about 8 inches. They will soon make thick shoots or top growth (below the surface) which is the edible part. Dig as wanted, cut just below the crown and serve with French or "Mayonnaise" dressing. Witloof is really a delicate and delicious dish.

Pkt. 10c; oz. 50c

LARGE ROOTED OR COFFEE.—Grown quite extensively for the large thick roots, which are sliced, dried, roasted and ground as a substitute or adulteration for coffee. To secure large smooth roots the soil should be light, rich, and deeply worked, and the plants should be thinned out to stand four to six inches apart.

Pkt. 10c; oz. 40c; 4 oz. \$1.25

CHERVIL

CURLED.—An aromatic herb, resembling parsley, and used for flavoring in soups and salads. Fine for garnishing.

Pkt. 10c; oz. 30c; 4 oz. \$1.00

CRESS

CURLED OR PEPPER GRASS.—Used as a salad and fine for garnishing.

Pkt. 5c; oz. 15c; 4 oz. 40c

TRUE WATER.—This is quite distinct from the former and only thrives when its roots and stems are submerged in water. It is one of the most delicious of small salads.

Pkt. 10c; oz. 60c

COLLARDS

TRUE GEORGIA.—Used as "greens" mainly in the South and West. As the leaves are pulled off, others grow in their places.

Pkt. 10c; oz. 25c; 4 oz. 60c

CORN SALAD

Fetticus or Lamb's Lettuce.—This is a hardy winter salad, the small leaves being served like lettuce during the cool fall and early winter months. It does not succeed during warm weather, and the seed should be sown thinly in drills during August, September and October to supply fresh leaves during the cool fall and winter months. It is quite hardy, and after cold weather sets in can be protected by a thin mulch of soft hay or straw.

Pkt. 10c; oz. 25c; 4 oz. 75c

BUG DEATH kills all leaf-eating insects; excellent for using on cabbage, cauliflower, etc. Can be used either dry or in water. See description, page 121; also dusters and blowers, page 126.

CUCUMBERS



Routledge Highest Quality Cucumber

Routledge Highest Quality

A quick grower and always commands "fancy prices" on account of its fine form and superb quality.

It is the earliest white spine cucumber, suitable for table, market or shipping purposes, under all conditions of culture, whether under glass or in the open ground.

Color a very deep green, which it retains during a long period, while in symmetry of form it is so regular so uniform, as to create comment wherever seen.

Quality is superb, being exceedingly brittle and crisp. The flavor is delicate and entirely devoid of the bitter taste so frequently noticed in other varieties.

Pkt. 10c; oz. 25c; 4 oz. 75c; lb. \$2.25

Arlington White Spine

One of the best sorts for table use. Vines vigorous, fruiting early and abundantly. Fruit uniformly straight, light, bright green in color, with a few white spines. Flesh crisp, tender and of excellent quality.

Pkt. 10c; oz. 20c; 4 oz. 50c; lb. \$1.50

Improved Long Green

The leading large variety. Fruit from 10 to 12 inches long, dark-green, crisp and tender. A good variety for slicing, and when ripe they are the best for sweet pickles.

Pkt. 10c; oz. 20c; 4 oz. 60c; lb. \$2.00

Davis' Perfect

As now selected, the long, even fruits are of fine form, with an intensely dark rich green skin. The solid white flesh is of superb quality for slicing. So handsome and regular are the fruits, even when grown outside, that they bring an extra price on the market, often being taken for "hot-house grown."

Pkt. 10c; oz. 20c; 4 oz. 60c; lb. \$2.00

Gherkin for Pickling

A very small, oval, prickly variety, quite distinct from all others.

Pkt. 10c; oz. 30c; ¼-lb. 90c; lb. \$3.00

Japanese Climbing

A vigorous grower, can be trained on a trellis or the garden fence, thereby saving ground space. Fruit from 12 to 16 inches long, dark green and smooth. Flesh pure white, crisp and tender.

Pkt. 10c; oz. 20c; 4 oz. 60c; lb. \$2.25

Lemon Cucumber

New. Highly recommended by all who have tried it for slicing and salads. Resembles a lemon both in size, form and color. Has a distinctive and delicious flavor superior to and not found in any other cucumber. A variety of real merit—try it.

Pkt. 10c; oz. 25c; 4 oz. 75c; lb. \$2.25

Boston Pickling

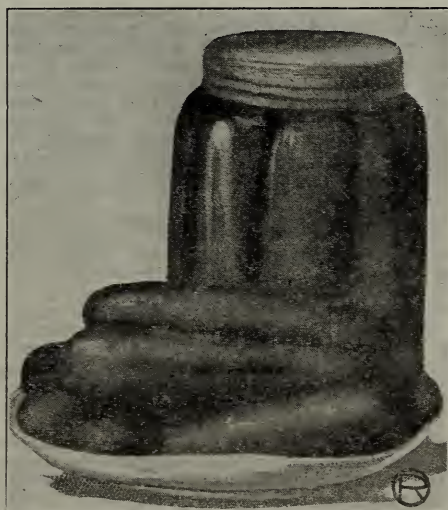
A distinct variety, very popular for pickles; color bright green, a great producer and of excellent quality. It is for producing medium-sized pickles that this variety is so highly esteemed. If the fruits are gathered as soon as large enough, the vines will continue bearing through a long season.

Pkt. 10c; oz. 20c; 4 oz. 60c; lb. \$1.50

Early Short Green

A very early and productive variety, bright green; rather short, straight and a little smaller at the ends. Crisp and tender. Good for pickling or slicing.

Pkt. 5c; oz. 15c; 4 oz. 35c; lb. \$1.25



Boston Pickling

USE WONDER.—So many of our customers tell us of the wonderful results, the increased yield and quick growth obtained by using our Odorless "Wonder" Fertilizer, that we again call YOUR attention to it. Remember you can get it by parcel post. See page 38.

Selected Sweet Corn — Northern Grown

Packet and single pound prices only prepaid. Add postage to 10-lb. prices if wanted by mail. Write for quantity price.



Routledge Selected Golden Bantam

ROUTLEDGE SUPERB

We do not hesitate to recommend this new sweet corn to our customers. Its earliness, hardness, size and quality make it of real merit to the western planters. It is extremely early, almost two weeks ahead of Golden Bantam and one week ahead of Portland Market. The large ears are always well filled with 12 to 14 rows of large, plump, white, sweet grains, of handsome appearance and excellent quality.

Large pkt. 15c; lb. 45c; 10 lbs. \$3.50

Portland Market

An Oregon introduction, a very early large eared sweet corn and very productive. Its large well-filled ears, together with its plump, sweet grains of purest white, makes it a most profitable home or market variety. Very popular with our market gardeners.

Large pkt. 15c; lb. 40c; 10 lbs. \$3.00

Early Evergreen

This fine variety is 10 to 12 days earlier than Stowell's Evergreen and yields large, handsome, 10 to 12-rowed ears. An excellent variety to follow the first early kinds. Near Portland it will make a late or main crop variety.

Large pkt. 15c; lb. 35c; 10 lbs. \$3.00

Routledge's Selected GOLDEN BANTAM

Flavor.—Without exception, Golden Bantam Corn is the richest in flavor of all varieties; a sweet corn of which one will never tire. The first trial of this delicious Sweet Corn creates a taste "like more."

Earliness.—Golden Bantam Sweet Corn is only exceeded in earliness by our "Superb," but we like the quality better. It matures quickly and is suitable not only for early planting (on account of its hardness), but a succession of sowings may be made which will give continuous supply until fall.

Color.—When picked at the proper stage of its growth the kernels are a rich, creamy-yellow and unsurpassed in quality.

Growth.—Being dwarf in its growth, with stalks small in size, it can be planted quite close, and a large crop may be obtained on a small area. The ears are 8 to 10-rowed, and about 6 inches long—just the right size for the table.

Remember our selected strain is northern grown, better flavored and truer than most seed offered. There is no other yellow or golden sweet corn that can compare to our selected Golden Bantam. Try it and be convinced.

Price: Large pkt. 15c; lb. 35c; 10 lbs. \$2.75; 25 lbs. @ 25c.

Rathdrum, Idaho, Feb. 26, 1920.

Routledge Seed & Floral Co.

Gentlemen: We were most pleased with the seeds bought of you last spring. The Golden Bantam Corn did exceedingly well.

Yours respectfully,

JENNIE M. CULP.

Howling Mob

This is one of the newer varieties that has become very popular here for main or late crop. The seed we offer is Oregon grown and acclimated. You must remember that the early corn listed by Eastern seed houses will be late here.

Howling Mob is a large-eared, vigorous grower, ears large, well protected with husks and having 12 to 16 rows of the sweetest flavored, tender, delicious white corn—good for canning.

Large pkt. 15c; lb. 35c; 10 lbs. \$3.00

Stowell's Evergreen

A good main crop or late sort. Remains longer in green state than any other. Very large ears, with deep grains, and remarkably sweet. Locally it must be planted early to mature. Quite extensively planted by dairymen for feeding green on account of its sweetness.

Large pkt. 15c; lb. 35c; 10 lbs. \$2.75

POP CORN

WHITE RICE.—Most popular and profitable kind; short ears, white, pointed kernels.

Large pkt. 15c; lb. 35c; 10 lbs. \$3.00

FIELD CORN.—Don't overlook what we have to offer in OREGON-GROWN FIELD CORN; "the best ever." See page 45. For HAND CORN PLANTERS see page 120.

How to Make and Care for Home Gardens

This 16-page booklet, priced at 25c, will be sent to any of our customers with a seed order amounting to \$2.00 or over for only 10c EXTRA. It is nicely illustrated and gives cultural directions covering all vegetables.

CELERIAC

Turnip Rooted Celery.—The roots, which are the edible portion, keep well for winter use and are excellent for soups and stews. They are also cooked and sliced as a salad. Sow seed at the same season and give the same treatment as any root crop.

LARGE ERFURT—An improved form, producing large, smooth roots, which are nearly round. Pkt. 10c; oz. 25c; 4 oz. 75c

EGGPLANT

Sliced and fried takes the place of meat. Culture same as for tomatoes.

NEW YORK IMPROVED SPINELESS.—Considered the best variety. Oval shaped, deep-purple, large size and fine flavor.

Pkt. 10c; ½-oz. 45c; oz. 75c

ENDIVE

This plant furnishes an attractive and appetizing salad for the fall and winter months or by repeated sowings a supply may be had nearly all the year round. Useful in flavoring soups, stews, etc. Makes delicious greens if cooked like spinach. Cultivation same as for lettuce. The bleaching of Endive is brought about by drawing the leaves together into a head and tying them and this should be done a month before it is wanted for table use.

BROAD LEAVED BATAVIAN.—Leaves are broad, thick, green, more or less twisted and waved with white mid-ribs. It forms large hearts, which when blanched, form one of the best winter salads. Crisp, tender and fine flavor.

Pkt. 5c; oz. 15c; 4 oz. 50c; lb. \$1.50

GREEN CURLED.—The hardest of all, with beautifully curled dark-green leaves, tender and crisp.

Pkt. 5c; oz. 15c; 4 oz. 50c; lb. \$1.50

WHITE CURLED.—Very tender and light green, blanches easily, very ornamental.

Pkt. 10c; oz. 20c; 4 oz. 50c; lb. \$1.50

GARLIC

Garlic is a perennial plant with a bulbous root and belongs to the onion family. It has flat leaves and the bulb is composed of several parts or bulblets similar to those of a multiplier onion set. We cannot offer seeds but can supply the bulbs or sets.

Prepare the ground as for onions, separate the sets and plant them in drills eight inches apart and four to six inches apart in the drill, covering two inches deep. Cultivate like onion sets. When the leaves turn yellow, pull up the bulbs and dry in the shade.

Per lb. 60c postpaid

Write for quantity price. Requires about 250 lbs, sets per acre.

HORSERADISH ROOTS

Will form radishes of large size in one season's growth. For prices, see Vegetable Plants and Roots, page 115.



Dwarf Green Curled

KALE, OR BORECOLE

This is a popular boiling-green resembling cabbage in flavor. The plant is entirely hardy in well-drained soil and can be grown easily from seed planted during the summer and fall months. With the tall varieties it is customary to pull off the lower leaves and let the plant grow on to furnish a continuous supply. The sweetness and flavor of these greens are improved by frost or light freeze.

Dwarf Green Curled

Beautifully curled, bright-green leaves, tender and of fine flavor.

Pkt. 10c; oz. 25c; 4 oz. 75c; lb. \$2.50

Tall Green Curled

Grows about 2 feet high; leaves dark-green; curled and wrinkled; very hardy.

Pkt. 5c; oz. 25c; 4 oz. 75c; lb. \$2.00

Emerald Isle

A very handsome variety of medium height. Leaves attractive, closely curled and of fine flavor.

Pkt. 10c; oz. 25c; 4 oz. 75c; lb. \$2.50

THOUSAND-HEADED.—For stock feeding. Pkt. 5c. See Field Seeds, page 44.

KOHL-RABI

A delicious vegetable. In growth this is half way between cabbage and turnip; the edible portion is the large bulb which forms on the stem above the soil. By making successive sowings, tender bulbs may be had throughout summer and fall, and are highly esteemed for their mild, delicate, cabbage-like flavor. Slice and boil, discarding the hard lower part of bulb. Sow in drills or raise and transplant like cabbage 6 to 10 inches apart.

EARLY WHITE VIENNA.—Extremely early, medium size, excellent quality.

Pkt. 10c; oz. 30c; 4 oz. 90c

LEEK

A species of onion which does not form a bulb, but is used for its mild and delicious root, stem or neck. Plant in rows and thin to about four inches. Hardy, and frost improves the flavor. Hill up to whiten.

American Flag

Mild and sweet; long, large stems; hardy and of the finest quality.

Pkt. 5c; oz. 25c; 4 oz. 90c

CARENTAN.—Very broad, thick stems of good flavor. Very large variety.

Pkt. 10c; oz. 35c; 4 oz. \$1.00

On Cucumber and Garden Plants use "Bug Death" for insects (see page 121), and "WONDER FERTILIZER" (see page 38), and you will be more than pleased with results.

LETTUCE

HIGHEST QUALITY LETTUCE SEED.—We pay our grower extra money for selecting seed from extra choice stock. It's worth double common seed generally offered.

Grand Rapids

Very popular with private gardeners and as a lettuce for greenhouse forcing. It will stand shipping better than most curled sorts. Of quick growth and stands for some days after being fit to cut. The plant is upright, and forms a loose head or cluster of large bright-green leaves, finely crimped and ruffled; rather thin, good flavor, crisp and tender. Pkt. 10c; oz. 25c; 4 oz. 75c; lb. \$2.00

Early Prize Head

A large, clustering, non-heading lettuce, most excellent for the home garden and undoubtedly the most easily grown variety in cultivation. It is too tender, however, to stand shipping or handling on the market. Leaves finely curled and crumpled, bright green tinged with brownish-red, very crisp, tender and sweet.

Pkt. 10c; oz. 25c; 4 oz. 70c; lb. \$2.00

Big Boston Improved

Plants large, very hardy and vigorous. Leaves broad, comparatively smooth, wavy at edges, thin, very firm and crisp; color bright light-green, slightly tinged with reddish brown. Grown extensively in the South for shipment north in the winter. It usually heads up under cold weather conditions better than any other variety.

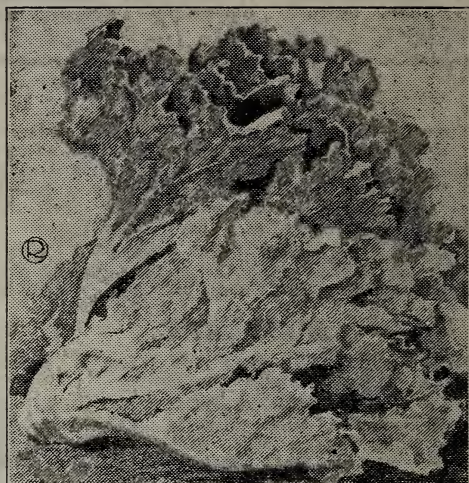
Pkt. 10c; oz. 25c; 4 oz. 60c; lb. \$1.50

EARLY WHITE COS.—Trianon Cos or Po-maine.—Distinct in having long, narrow, spoon-shaped leaves, folding into loose, sugar-loaf-shaped heads which blanch better by having the outer leaves drawn about them and tied. Leaves yellowish white, crisp, tender and of a distinct and pleasing flavor.

Pkt. 5c oz. 25c; 4 oz. 70c; lb. \$2.00

SIMPSON'S EARLY CURLED.—A very extensively used early loose-leaved, or clustering variety. Leaves light-green, slightly frilled, crisp, sweet and tender.

Pkt. 5c; oz. 20c; 4 oz. 50c; lb. \$1.50



Grand Rapids

Hanson

Improved Hard Heading Stock.—The leading head lettuce. We can recommend this as one of the very best. Heads green outside and white inside; grow to a remarkable size; very solid, and is deliciously sweet, crisp and tender. It withstands the hot sun.

Pkt. 5c; oz. 25c; 4 oz. 70c; lb. \$2.00

Sandover, Md., Oct. 28, 1920.

Routledge Seed & Floral Co.

Dear Sirs: Will you please send me your catalog?

I planted some of your seed, since coming to this part of the country, last summer, and have had wonderful success with them, as I always find your seeds reliable.

Thanking you for your kind favor, I remain,

Yours truly,

MRS. S. R. KLINE.

25c BOOKLET FOR 10c

"HOW TO MAKE AND CARE FOR THE HOME GARDEN." 16 PAGES. WE MAKE THIS SPECIAL PRICE WITH A \$2.00 ORDER.

R. R.'s Wonderful

A re-selected, hand-picked strain of the original New York or Wonderful. Our grower has given this stock special attention and it is a wonderful strain. It produces immense heads of closely folding ruffled leaves. The heart blanches beautifully and is crisp, tender and delicious. A robust variety, rooting deeply and thus able to resist hot, dry weather; slow to seed and a sure header. The outer color is of a distinct apple-green. A rapid grower and unsurpassed as a home or market lettuce.

Pkt. 10c; 1/2-oz. 30c; oz. 50c; 4 oz. \$1.50; lb. \$5.00.



R. R.'s Wonderful

LETTUCE — Continued

R. R.'s Tender Crisp

A distinct and extra choice variety for those who like curly, crisp, tender Lettuce of the finest quality.

Grows to a large size, makes most desirable heads of pleasing appearance, and retains its crispness and mild flavor to a greater degree during the hot summer months than any other crisp-head variety. While especially adapted for midsummer, it is most desirable also for spring and fall. The plants are of quick, strong growth; the leaves are of a soft, bright-green, growing closely around the heads, which are tightly folded and blanch to a silver white, and crisp and brittle as could be desired.

Pkt. 10c; 1/2-oz. 25c; oz. 40c; 4 oz. \$1.00; lb. \$3.00.

New York (Los Angeles)

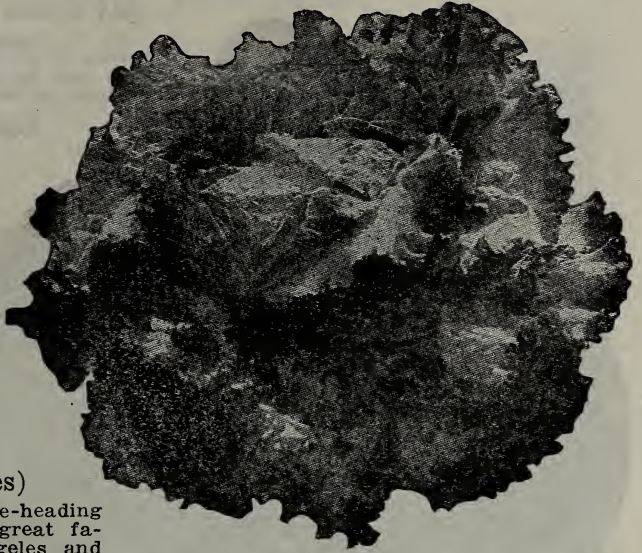
A large, crisp, curly-leaf, close-heading lettuce of the finest quality. A great favorite in the markets of Los Angeles and San Francisco. Carloads of this variety are shipped by California growers and it brings the highest prices.

Pkt. 10c; oz. 40c; 4 oz. \$1.25; lb. \$4.00

Early May King

The plants are of quick growth, practically all head and extremely handsome. From early spring plantings in the open ground they grow quickly to a diameter of 6 to 7 inches with the broad, light-green outer leaves folding closely about the round, solid head. The inner leaves (practically the entire head) are branched to a rich golden yellow and have a specially fine, rich, but-tery flavor.

Pkt. 10c; oz. 25c; 4 oz. 75c; lb. \$2.00



R. R.'s Tender Crisp Lettuce

OUR MOTTO IS "Highest Quality"

It's quality FIRST, then price as low as possible. The best seeds are the cheapest in the end, even though they cost a little more.

White Salmon, Sept. 20, 1920.

Routledge Seed & Floral Co.

Gentlemen: I have had the best of luck with your seed I got from you last year. Every seed I put in the ground grew.

Wishing you more success, I remain,

Yours very truly,

MRS. LYDIA CAVEN.

Way-a-head Extra Early

A new lettuce showing a remarkable combination of earliness, firm heading character, handsome appearance and fine quality. Both in cold-frames early in the spring and in the open ground—in spring, summer and early fall months—it has proved to be not only the earliest and one of the sur-est heading of all early let-tuce, but also of the very fin-est quality. It is not only earlier than May King and other fine early varieties, but the tightly folded heads are generally larger in size. The outer leaves are a light-green, with the inner head finely blanched to a rich buttery yellow. We urge you to try this new variety (see cut).

Pkt. 10c; 1/2-oz. 20c; oz. 35c; 4 oz. 75c; lb. \$2.00.



Way-a-head—Extra Early

PLANT SMALL FRUITS around your garden. What's nicer than delicious fresh fruit, fresh from your garden? See Fruit Department, pages 106 to 115.

True Seeds

ONION

Highest Quality

NEW ONION CULTURE

By T. Greiner. A new method of growing onions of the largest size and yield on less land than can be raised on the old plan. 140 pages. Postpaid \$1.25. (Other good books on page 128.)

Oregon Yellow Danvers

This is the variety planted almost entirely in the Northwest, particularly in Oregon. The largest crops of onions and the best keepers, bringing the highest prices in the Pacific Coast and Middle Western markets, are the Oregon Yellow Danvers. The bulbs are uniformly large, three-quarters globe shape, with small necks. It is the earliest, largest in size, most perfect in shape, the largest cropper and the best keeper, and as a market or table onion cannot be excelled. Our seed is grown specially for us by the best onion seed growers in Oregon. No onion grower can afford to plant anything inferior when such seeds can be obtained at the following prices:

Pkt. 10c; oz. 30c; 4 oz. 80c; lb. \$2.75.



Oregon Yellow Danvers Onion

Newberg, Ore., Feb. 27, 1920.

Routledge Seed & Floral Co.

Dear Sirs: I dealt with you last year and was well pleased with seed and treatment.

Respectfully,

REV. CHAS. E. GIBSON.

Yellow Globe Danvers

One of the most extensively used yellow onions. Bulbs of good size, uniformly globe-shaped, with small neck, and ripen very evenly. Flesh white, crisp and of mild and excellent flavor. An enormous yielder and a fine keeper. We offer a select strain, unsurpassed.

Pkt. 10c; oz. 25c; 4 oz. 75c; lb. \$2.50

Australian Brown

Its remarkable keeping qualities and handsome appearance makes it very desirable. Resembles the Yellow Danvers in general appearance, but has a clear, amber-brown skin. It matures early, ripens uniformly and is a good, long keeper.

Pkt. 5c; oz. 20c; 4 oz. 60c; lb. \$2.00

Southport White Globe

An enormous yielder and superb keeper; perfect globe-shaped, very large, clear white skin and considered one of the handsomest varieties grown. Planted extensively by market gardeners for green onions.

Pkt. 10c; oz. 30c; 4 oz. \$1.00; lb. \$3.25

White Portugal or Silverskin

The finest flavored of all the white-skinned onions. Quite early, half-globe shaped, a fine cropper; very firm and an excellent keeper. Planted thickly in broad drills makes fine pickling onions.

Pkt. 10c; oz. 35c; 4 oz. \$1.00; lb. \$3.25

Large Red Wethersfield

The Standard variety of the red onions. Of large size, half globe, a heavy yielder, and one of the best for keeping. Skin a deep purplish-red, smooth and glossy; will do better on fair upland soil than most varieties; flesh white, rather strong.

Pkt. 5c; oz. 25c; 4 oz. 60c; lb. \$2.00

Routledge Prize Taker

This onion has become a great favorite on account of its large size and great solidity. It is perfectly globe-shaped, with straw-colored skin; the necks are very small and the onions always ripen up hard. An excellent keeper, exceedingly fine, mild flavor and a very popular variety. (See cut, next page.)

Pkt. 10c; oz. 30c; 4 oz. 75c; lb. \$2.25

Extra Early Red Flat

The first Red Onion to ripen. A medium-sized, flat variety; an abundant producer and very uniform in shape and size; fine grained, mild flavored, and comes into use nearly two weeks earlier than the Large Red Wethersfield; very desirable for early market use.

Pkt. 10c; oz. 30c; 4 oz. 80c; lb. \$2.50

THIS WILL
PROTECT
ONIONS
FROM BUGS



SEE FULL PARTICULARS, PAGE 121.

DO YOU SEND EAST for your Seeds? Coast. Here's where you sell your products.

It's bad policy. Spend your money on this Our seeds are highest quality.

ONION — Continued

Highest Quality True Seed

SOUTHPORT RED GLOBE

A large globe-shaped onion and the most richly colored red variety. Is a late sort and an excellent keeper. A very handsome variety and of fine quality.

Pkt. 10c; oz 35c; 4 oz. \$1.00; lb. \$3.25

White Bartletta—Queen

An early white variety; prized for home gardens and pickling on account of its small size. White Portugal is a much better keeper and if planted thickly in wide drills will stay small.

Pkt. 10c; oz. 50c; 4 oz. \$1.50; lb. \$4.50

Crystal White Wax

A large, pure white, flat onion. During the last few years it has become very popular. Extremely early and one of the mildest and sweetest of all. It is very fine for slicing, the color being so clear and pure. We offer the genuine true seed.

Pkt. 15c; oz. 50c; 4 oz. \$1.50; lb. \$5.00

ONION SETS

NOTE.—Onion sets subject to market changes; short crop this year.

BOTTOM ONION SETS.—These small onions are grown from seed that have been sown too thick to attain a large size. The small onions (about ½-inch in diameter) thus obtained are planted out and are ready in a short time to pull as green onions for the table.

Per lb. 35c; not postpaid 25c; 5 lbs. \$1.00. Write for quantity prices.

TOP SETS.—Lb. 40c; not postpaid 30c.

SHALLOTS.—Valuable for bunching or for an early crop. Each bulb makes from 3 to 5 green onions.

Per lb. 35c; 4 lbs. \$1.25; prepaid

OKRA

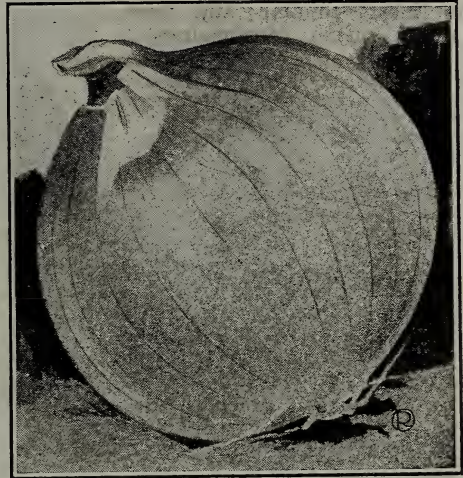
IMPROVED DWARF GREEN.—Very productive; long, slender green pods.

Pkt. 5c; oz. 15c; 4 oz. 30c



Mushrooms

MUSHROOM CULTURE.—We have instructive leaflets on Mushroom Culture. Free with an order of one or more bricks.



Routledge Prize Taker (see next page).

MUSTARD

The leaves of mustard make excellent greens of sharp, pungent flavor, and are cooked the same as spinach or beet leaves.

Southern Giant Curled

Large variety, forming a great mass of beautiful leaves, which are ruffled and finely curled on the edges; hardy, vigorous highly recommended.

Pkt. 10c; oz. 20c; 4 oz. 35c; lb. \$1.25

Ostrich Plume

Leaves dark-green, beautifully curled and plume-like. Very vigorous and productive, stands well. Of distinctive flavor superior to spinach for greens and excellent for salad.

Pkt. 10c; oz. 20c; 4 oz. 50c; lb. \$1.50

WHITE ENGLISH.—Light-green variety; tender leaves; seed light-yellow.

Pkt. 5c; oz. 15c; 4 oz. 40c; lb. \$1.00

MUSHROOM SPAWN

LAMBERT'S PURE CULTURE SPAWN.—Mushrooms may be grown in any place where conditions of temperature and moisture are favorable. A shed, cellar or cave may be utilized to advantage for this purpose. It is essential that the temperature be maintained from 53 to 60 degrees F., and that the moisture be properly regulated. Lambert's Pure Culture Spawn is far superior to the old-style varieties, and much better results can be obtained from its use. The bricks should be broken into pieces about two inches square and planted from 10 inches to a foot apart. Bricks weigh from 13 to 20 ounces. A brick will spawn 10 square feet of bed. With Lambert's Pure Culture Spawn it is impossible to raise poisonous mushrooms.

DIRECT SPAWN.—Latest and best. Mammoth White, Cream White or Bohemian Brown.

Price, per brick, not prepaid, 35c; 10 bricks \$3.00; add postage at rate of 1½ lbs. per brick. Write for quantity price.

MUSKMELON

Netted Rock or Rocky Ford

The most popular and best seller among Muskmelons

The fruit is oval and completely covered with a beautiful lace-like netting. Flesh very thick; green, very sweet, luscious, melting and superb flavor. The fruit is wonderfully uniform in shape and quality. The favorite everywhere.

Pkt. 10c; oz. 25c; 4 oz. 75c; lb. \$2.00.

Burrell's Gem

Select Strain.—A new, medium-sized oval variety, well ribbed and covered with a fine grayish netting and having reddish-orange flesh of fine, spicy flavor, sweet and delicious, distinct flavor. There is a growing demand here for the fine-grained, smooth, salmon, red-fleshed Muskmelons.

Pkt. 10c; oz. 25c; 4 oz. 75c; lb. \$2.00.

The Hoodoo

One of the best of recent introductions. It is early and prolific. The fruit is of medium size, the seed cavity very small, the rind very thin, indeed, and the edible fleshy part thick and meaty. It is of orange or salmon color, the type much preferred now; but its great charm is its flavor, which is par excellence. Test it.

Pkt. 10c; oz. 25c; 4 oz. 75c; lb. \$2.50

Golden Beauty Cassaba

Fall and Winter Muskmelons

Skin wrinkled, flesh thick, excellent flavor and fine aroma. When nearly ripe pick and stow away in a cool, dark place until the rind becomes slightly softened and moist. Melons will actually keep until February. Pkt. 10c; oz. 25c; 4 oz. 75c; lb. \$2.50



Netted Rock—Rocky Ford

Osage, or Miller's Cream

Medium to large, flesh thick, deep salmon, of excellent quality, rich and sweet; skin dark-green, slightly netted and ribbed. A favorite variety for the later markets.

Pkt. 10c; oz. 25c; 4 oz. 60c; lb. \$2.00

Montreal Improved Nutmeg

Valued for its size and delicious flavor. Round in shape, with remarkably thick green flesh. One of our handsomest varieties.

Pkt. 10c; oz. 25c; 4 oz. 75c; lb. \$2.50

Aberdeen, Wash., Jan. 14, 1920.

Routledge Seed & Floral Co.

Dear Sirs: While on duty in Eugene, Ore., three years ago, I had such fine success with all your seeds, that I want to use them again this year if possible.

Thanking you in advance, I am,
Very truly yours,

W. H. SANDIRS.

WATERMELON



Routledge's Oregon Prize

ROUTLEDGE'S OREGON PRIZE

We offer this new Melon with the assurance that it is not only remarkably early, but as sweet, delicate and melting in flavor as any variety grown.

The flesh is of a deep scarlet; rind thin, and on this account is not a particularly good shipping sort, but is emphatically the variety for home use and sale. It will ripen in altitudes where it has not been thought possible to mature a good watermelon.

Pkt. 10c; oz. 25c; ¼-lb. 60c; lb. \$2.00

KLECKLEY'S SWEET

Unsurpassed for home use or near markets. Vine vigorous and productive; fruit of medium size, oval; color dark-green; flesh very bright, rich red and exceedingly sweet.

Pkt. 5c; oz. 20c; 4 oz. 45c; lb. \$1.25

Citron, Red Seeded.—Flesh white and solid, used exclusively for pickles and preserves.

Pkt. 10c; oz. 25c; 4 oz. 50c

"Highest Quality" GARDEN PEAS Hand Picked

There is a vast difference in "strains" of garden peas. You will find our stock "very superior," healthy, vigorous and true, much better than the average seed sold by wholesale seed dealers and jobbers. Try them if you want "Highest Quality."

Packet and single pound prices only are prepaid. Add postage to 10-lb. prices if wanted by mail. WRITE FOR QUANTITY PRICES, but new crop of new pea seeds is very short.

ALASKA

An extra early, exceedingly hardy pea. Pods of perfect shape, well filled with smooth peas of good quality. Height 2½ feet. Can be planted much earlier than wrinkled peas.

Large pkt. 15c; lb. 30c; 10 lbs. \$2.50

AMERICAN WONDER

Well known and very popular; extra early, productive and good flavor; grows 10 inches high.

Pkt. 15c; lb. 35c; 10 lbs. \$3.25

Duke's Delight

A very dwarf, extra early, delicious pea of great merit.

Our regular customers are now demanding it in preference to American Wonder, Notts and Gem varieties.

Duke's Delight easily outclasses these old popular kinds in productiveness, size and fullness of pods, color, sweetness and flavor. The sturdy, stocky, healthy vines grow about 12 to 14 inches high. Every grower praises it. Read reports, we receive many like them.

Large pkt. 15c; lb. 45c; 10 lbs. \$4.00

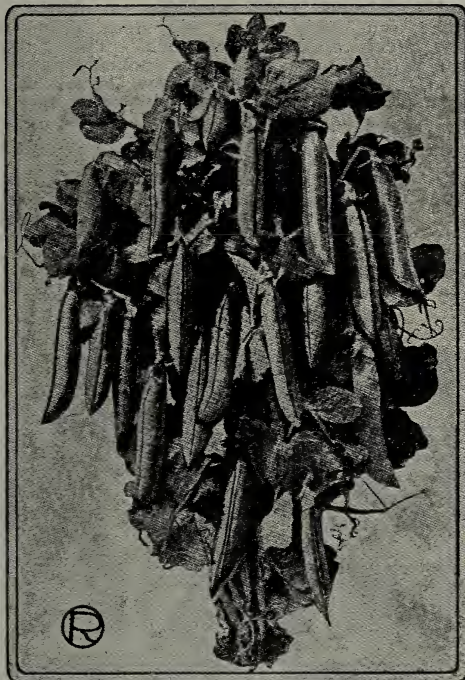
Forest Grove, Ore., Oct. 20, 1920.

Routledge Seed & Floral Co.

Dear Sirs: We want to say that the seeds procured from you last spring were very satisfactory, especially "Duke's Delight" Peas, Coreless Carrot and Sweet Marrow Parsnips.

Yours,

WM. ROBB.



Duke's Delight

Vernonia, Ore., Feb. 26, 1920.

Routledge Seed & Floral Co.

Gentlemen: I want to tell you that I think the Duke's Delight Peas the best pea I have ever planted. For canning they are the best and sweetest I ever tasted. Every jar I have opened this winter sure has been a "Delight." Friends have asked how I canned my peas that they taste so good. I tell them it is not how I canned them, but the kind I canned.

I am always glad to speak a good word for Duke's Delight Peas and wish the Routledge Bros. much success.

Yours very truly,
MRS. HERMAN L. GREENER.

SUTTON'S EXCELSIOR

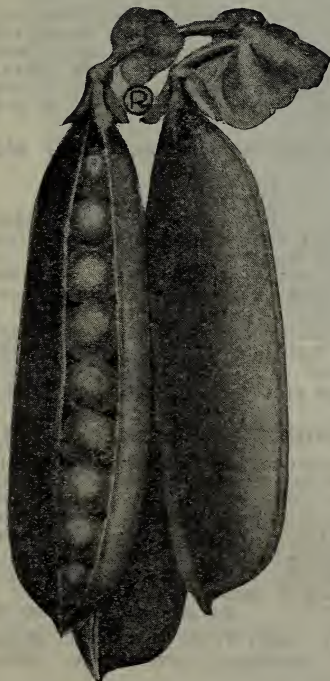
This handsome wrinkled Pea is so hardy that it may safely be planted as early as Alaska. The plants are dwarf, sturdy, very stout, exceedingly productive and the "quality" is all that could be desired. The pods are large for so dwarf a variety and always well filled. Improvement over Notts Excelsior.

Large pkt. 15c; lb. 35c; 10 lbs. \$3.00

RICHARD SEDDON

The pods are deep green, crowded with from 7 to 9 large peas of very fine color and flavor. An extremely early type, maturing only a week later than the Alaska, when sown at the same time. A splendid all-around early dwarf variety. On account of its immense productivity, evenness of maturity, compact, well filled pods and excellent color and quality, it is especially desirable for canning purposes.

Large pkt. 15c; lb. 35c; 10 lbs. \$3.00



British Queen

Be sure you read about Mulford's Culture for inoculating pea seed. Increase the yield and improves the soil. (See page 41.) Plant extra early, early and late varieties all at same time for a succession of prime pods.

Highest Quality Garden Peas — Continued

Market Gardeners who buy Peas in quantity should write us for prices, stating variety and amount wanted. Single pound prices only are prepaid. See notes top of page 25.

BURPEE'S BLUE BANTAM

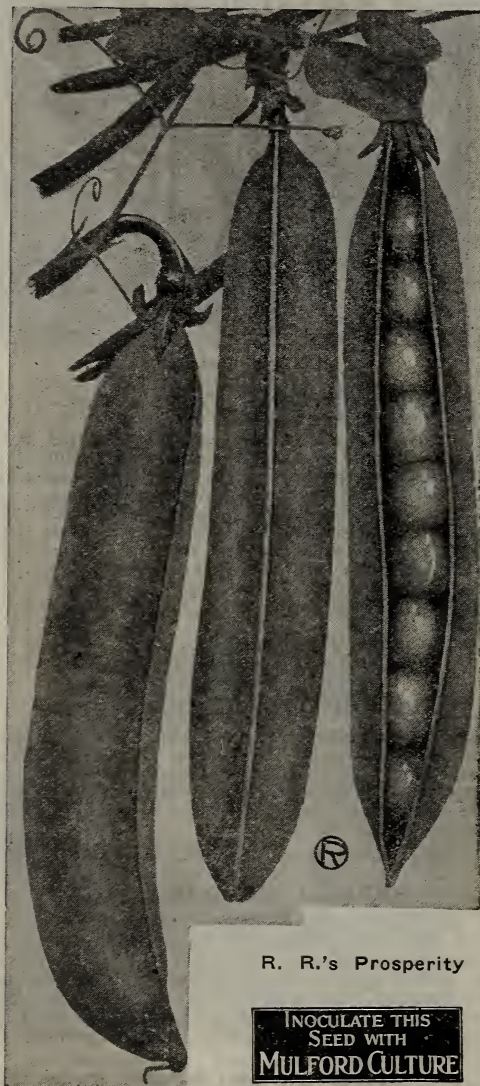
Unequaled for extreme earliness, superb quality, and unusual productiveness. The dwarf vigorous vines average 15 inches in height and carry really enormous crops of large, deep bluish-green pods. The handsome pointed pods average 4 inches long and are tightly packed with extra large, deep bluish-green peas of most luscious flavor.

Large pkt. 15c; lb. 45c; 10 lbs. \$3.75

LITTLE MARVEL

An extremely valuable variety, especially suited to small home gardens, and early market. It matures very early and produces large crops. Vines 15 to 18 inches high. The pods are dark-green, good size, produced in pairs and are closely filled with 6 to 7 peas of extra fine flavor.

Large pkt. 15c; lb. 35c; 10 lbs. \$3.00



R. R.'s Prosperity

INOCULATE THIS
SEED WITH
MULFORD CULTURE

BRITISH QUEEN

A new early, medium dwarf garden pea of startling merit. Sturdy, healthy vines produce in profusion an abundance of good-sized pods filled with dark-green peas of luscious flavor. Try it to follow Duke's Delight.

Large pkt. 15c; lb. 40c; 10 lbs. \$3.50

R. R.'s Prosperity

The Earliest Large Podded, Sweet Garden Pea to date.

It is hardy and can be planted fully as early as Alaska.

This grand, large podded, extremely early, prolific variety, is vigorous and robust; height 3½ to 4 feet; only a few days later than the earliest smooth sorts.

The pods are very large, and are invariably well filled with from 8 to 10 sweet, luscious, tender wrinkled peas of large size and delicious flavor.

The peas remain tender and sweet for some time after they are large enough to use. Its heavy yield and excellent quality makes it a most profitable market variety.

Large pkt. 15c; lb. 45c; 10 lbs. \$3.75

LAXTONIAN

This is an ideal market and home garden pea, medium dwarf in habit of growth, but with very large pods, filled with large, dark-green peas of excellent quality.

Large pkt. 15c; lb. 40c; 10 lbs. \$3.50

DWARF TELEPHONE—DAISY

A splendid mid-season variety, growing only about 18 inches in height; vines very stout and bear a good crop of large, well-filled, bright-green pods. The pods average 5 inches in length, containing 7 to 9 large peas which are tender and sweet. A popular sort.

Large pkt. 15c; lb. 40c; 10 lbs. \$3.25

GRADUS

Extra early. This popular large-podded wrinkled pea of finest quality matures pods only two or three days later than the small-podded round-seeded extra earlies. Vines four feet high. It produces uniformly large pods, measuring from four to four and a half inches in length, nearly round, and well filled with very large, handsome peas of the finest flavor.

Large pkt. 15c; lb. 40c; 10 lbs. \$3.00

EDIBLE PODDED OR SUGAR PEAS

A great favorite with many. In the Edible-Podded or Sugar Peas the pods are gathered, broken and cooked like string-beans when the peas start to develop in the pod or have reached about half their full size.

DWARF SUGAR.—Grows about 2 feet in height, producing a heavy crop of small flat pods about 3 inches in length.

Large pkt. 15c; lb. 45c

MAMMOTH MELTING SUGAR.—Grows 4 feet tall, producing very large, broad, flattened pods.

Large pkt. 15c; lb. 50c; 10 lbs. \$4.00

DON'T

practice false economy in buying low-priced seeds. High quality, 1920, new-crop seeds cannot be sold for less. Low prices means old seed. Be careful.

PEAS—CONTINUED—LARGE PODDED, LATE OR MAIN CROP

Packet and single pound prices only postpaid. Prices high. New crop very short.

IMPROVED STRATEGEM

A very productive semi-dwarf variety with large leaves and large pods. Requires no support. The peas are dark-green, wrinkled, and large. It is planted in large quantities by gardeners for market. In quality it is unsurpassed, the peas when cooked being of the most delicious sweetness.

Large pkt. 15c; lb. 35c; 10 lbs. \$2.75.

TELEPHONE

One of the most popular and largest peas we have. Vines attain a height of 4½ feet, bearing profusely the extra long, handsome pods; tender, sweet and superb flavor. We offer a very carefully rogued, select strain of unusual merit.

Large pkt. 15c; lb. 35c; 10 lbs. \$3.00.

Routledge Prize

A new, sweet, wrinkled, mammoth podded Pea of extra value.

This re-selected new strain, grown especially for us in New Zealand, will be found true to name. A sturdy, healthy grower. Vines and pods are a deep, rich green. A bushel of Routledge Prize pods will shell out nearly twice as many peas as a bushel of Telephone. The vines are enormously productive, being completely covered with immense long pods, well filled with from 8 to 11 large peas of the richest flavor. This variety grows about 4 feet high and as an abundant cropper is superior to all other sorts.

Nothing in the line of peas excels the Routledge Prize in richness, sweetness and flavor. We are sure our customers will agree with us after testing this new pea. Try them and report results if you will.

Large pkt. 15c; lb. 40c; 10 lbs. \$3.50.

Read these reports:

Everett, Wash., Sept. 6, 1920.

Routledge Seed & Floral Co.

Dear Sirs: I was well pleased with the seed I got of you in the spring, especially the Routledge Prize Peas. Hope to have a better order the coming spring.

Yours truly,

R. R. MULLEN.

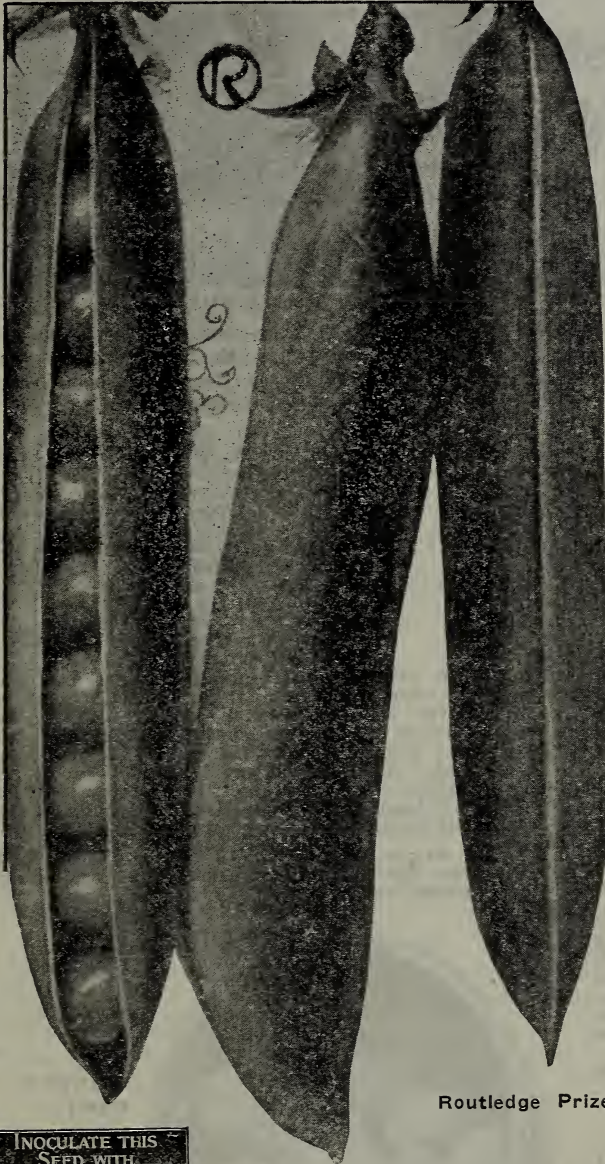
Montesano, Wash., Feb. 18, 1920.

Routledge Seed & Floral Co.

Gentlemen: We had the Spencer Sweet Pea from your house last year, and without extra care they were a beautiful sight.

Yours truly,

JOHN REGAN.



Routledge Prize

INOCULATE THIS SEED WITH MULFORD CULTURE

See Page 41

Aberdeen, Wash., Nov. 23, 1919.

Routledge Seed & Floral Co.

Sirs: I bought a packet of your "Routledge Prize" Peas last spring and they were certainly very satisfactory. My vines were one mass of peas on them. I never saw such a crop, and such large pods, well filled. I am sure I nearly got as many from one packet of "Routledge Prize" as from two packets of "Gradus" grown side by side. I am sorry we did not weigh the peas as we gathered them. Several of my friends want those peas next year.

Respectfully,

RUPERT H. ILTON.

Routledge Seed & Floral Co.'s

PURE SEED

POTATOES



We offer a few varieties of special merit that we recommend. We think it is folly to plant ordinary or common stock. Many gardeners insist on the best vegetable seeds, but plant any old kind of potatoes, not knowing whether they are early or late. Get a start of some of our select seed stock and you will be more than pleased with the results.

ABOUT PRICES.—Prices are subject to important market changes. Ask for quotations on larger lots, stating quantity wanted. Good, true, healthy stocks of the best named Seed Potatoes are not plentiful and are always in demand. Order early, before stocks advance. We look for higher prices late in the spring.

ROUTLEDGE IMPROVED

EXTRA EARLY IRISH COBBLER

The true Irish Cobbler is extremely early, large enough to eat in six to eight weeks and under ordinary field culture the vines will die down and the full crop will be matured in 10 to 12 weeks. The potatoes are medium to large, round, slightly oblong and rather blunt; skin white, eyes strong and well developed. Eating quality far superior to most "earlies" and equal to the best of the late kinds. A good keeper and excellent baked or boiled. Vines small, but sturdy and healthy, bloom, lavender pink. Can be planted close, the ideal first early potato for the home gardener or commercial planter who wants to secure "top prices" for "first new crop."

This year we have only a very limited stock of our own "true strain" from imported stock.

Prices, not prepaid: 5 lbs. \$1.00; 10 lbs. \$1.50. (Note.—Above prices may seem high, but our stock seed cost us over 30c per lb., laid down here.)

IRISH COBBLER.—There is a lot of "so-called" Irish Cobbler among local growers, but most of the stock is not the true early type, and the vines grow all summer, good producers, but not extra early. We can supply this class of Cobblers in quantities.

Prices: 10 lbs. 75c; 50 lbs. \$2.25; 100 lbs. \$4.00.

"EARLIEST OF ALL"

Its quick growth and early maturity, combined with its excellent cooking qualities, makes it very valuable. Summer drought does not affect it, for its growth is complete before it can be injured. Plant early to obtain large size. Ready for the table nine weeks from planting, and fully matured in 12 weeks.

"Earliest of All" is a healthy, vigorous grower, not subject to blight or disease and does not make a second growth. Keeps as well as any late potato. A handsome, shallow-eyed, round, slightly flattened, white-skinned potato of the finest table quality. Price, not prepaid, add postage if wanted by mail: Lb. 10c; 5 lbs. 40c; 10 lbs. 75c; 50 lbs. \$2.75; 100 lbs. \$5.00.

REMEMBER.—Potatoe prices subject to market changes. Special prices on request. State quantity wanted.

Philomath, Ore., March 27, 1920.
Routledge Seed & Floral Co.

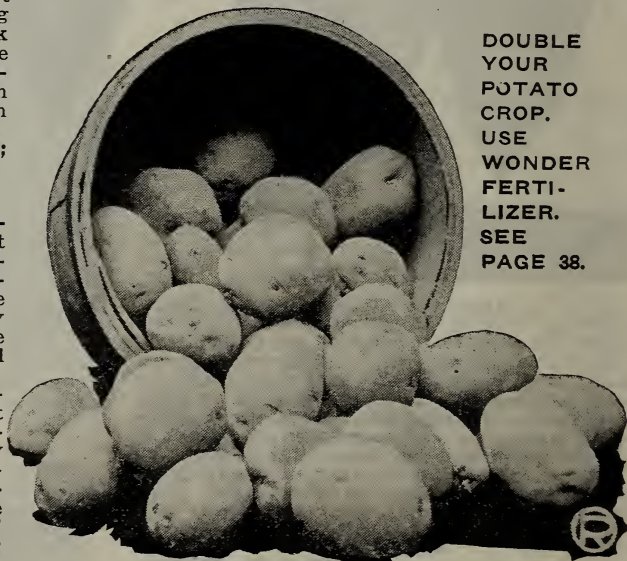
Gentlemen: The Potatoes you sent me came through all right. They are very nice ones and the Lily pips are doing fine. Thanks for such fine seeds. Will send more orders soon.

Yours respectfully,
EUGENE BOTTUM.

EARLY ROSE

A great favorite on all markets and many growers still claim that the true stock has never been excelled in quality and productiveness. Potatoes long in shape, good size, and generally show traces of pink at the bud end. They cook mealy and are of fine flavor. Our seed stock comes from the high hill lands and produce exceptionally well in our valley.

Prices, not prepaid: 5 lbs. 40c; 10 lbs. 65c; 50 lbs. \$2.75; 100 lbs. \$5.00; quantity prices on request.



Earliest of All

Sweet Potato Plants

These are ready in May and June. See page 37.



Seed Treatment

We advise dipping of potatoes in Corrosive Sublimate before planting. Ask the O. A. C. or your "County Agent."

"Pride of Multnomah" raised from our "hill-selected," pedigree stock. Ideal in shape, heavy and solid; free from all disease. The \$ size circle gives comparative size. Order early and be sure of good stock.

PRICES.—All potato prices are subject to change without notice. Write for prices, stating quantity wanted, when ready to buy.

WHITE ROSE (California)

A standard market potato in Southern California, the shape being a flattened oval rather elongated, having few eyes and a beautiful creamy-white skin. Abundant foliage and lavender flower—fading to light. Yields well, and although not an early maturing potato, it makes a vigorous, rapid growth and can be used quite early. The strain we have is the best. The one in big demand in California.

Prices, not postpaid, lb. 10c; 5 lbs. 40c; 10 lbs. 65c; 50 lbs. \$2.25; 100 lbs. \$4.00.

AMERICAN WONDER

One of the best all-around white potatoes, very popular for early main crop. A strong grower and a great producer; tubers white, uniform in size, elongated, of excellent quality. Ready to use quite early.

Price, not prepaid: 5 lbs. 40c; 10 lbs. 65c; 50 lbs. \$2.25; 100 lbs. \$4.00; quantity price on request.

BURBANK

A standard commercial variety. Much of the local stock is "run out" and mixed. We offer improved re-selected, healthy stock that will yield much heavier than most.

Prices, not prepaid: 5 lbs. 35c; 10 lbs. 65c; 100 lbs. \$4.00; quantity price on request.

PRIDE OF MULTNOMAH

Our leading main crop variety; has no equal as a profitable commercial variety.

It is one of the heaviest yielding, most even growing main crop variety. The skin is smooth and white, eyes shallow, and cooking qualities unexcelled, being fine grained and of snowy whiteness either boiled or baked. Withstands drought better than most varieties. We offer hand-selected stock from our expert grower. (See illustration.)

Price, not prepaid, add postage if wanted by parcel post, 5 lbs. 40c; 10 lbs. 65c; 50 lbs. \$2.25; 100 lbs. \$4.00. Do you prefer large or medium seed stock?

NETTED GEM

Also known as Russet Burbank. They are of splendid quality, heavy yielders and the right shape for the Oregon and California market. We offer healthy, vigorous stock. Same price as Pride of Multnomah.

PRODUCER

A large, smooth, oval, white potato with shallow eyes, of finest table quality; will not "boil to pieces," and baked has no superior; it is a hardy, vigorous grower that earned its name of "Producer" on account of its enormous and never-failing yield.

Price, not prepaid, add postage if wanted by parcel post, 5 lbs. 40c; 10 lbs. 65c; 50 lbs. \$2.25; 100 lbs. \$4.00.

PARSLEY

CHAMPION MOSS CURLLED.—An English strain, with beautiful moss-curlled foliage; vigorous grower.

Pkt. 10c; oz. 20c; 4 oz. 50c; lb. \$1.50

ARLINGTON EXTRA CURLLED.—Very choice strain, having the greatest possible curl to the leaves and the darkest green color; a very vigorous grower; will stand heat and drought better than any other.

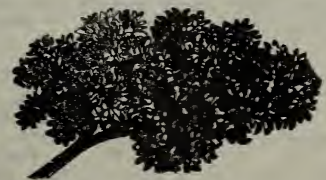
Pkt. 10c; oz. 20c; 4 oz. 50c; lb. \$1.50

PLAIN LEAF.—Single-leaved variety, very fine and excellent flavor.

Pkt. 5c; oz. 10c; 4 oz. 30c; lb. \$1.00

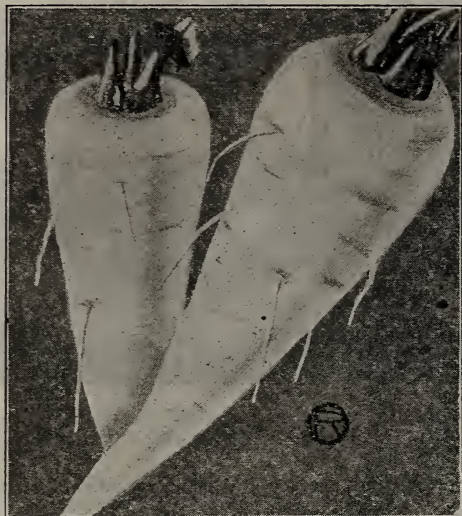
HAMBURG TURNIP ROOTED.—The root is the edible portion of this variety and resembles a small parsnip in color and shape. Used extensively for flavoring soup, stews, etc. Foliage same as plain parsley.

Pkt. 10c; oz. 20c; 4 oz. 45c



For Good Garden Books see pages 128-129.

IT PAYS TO USE "WONDER" FERTILIZER.—W. L. Richards reports a crop of 422 lbs. of large, choice potatoes from a 100-foot row where he used "WONDER FERTILIZER," and only 138 lbs. of small "spuds" where "Wonder" WAS NOT USED. Soil and growing conditions the same. Note—He brought samples to our store.



Sweet Marrow Parsnips

PEPPER

Plant seed early in the spring; culture same as for tomatoes. Plants in season. See Vegetable Plant List, page 37.

CHINESE GIANT

The largest of all the peppers, very sweet and mild. Brilliant, glossy scarlet when ripe. Excellent for stuffing.

Pkt. 15c; oz. 80c

RUBY KING

A strong, healthy grower, very productive. Fruit large and well formed, and as they ripen are a handsome rich scarlet. The flesh is thick, sweet, and mild. Especially fine for mangoes. An excellent sort.

Pkt. 10c; oz. 75c

PIMENTO — PERFECTION

This is a sweet pepper—one which you will enjoy eating in salad, either fresh or canned. Fruit medium in size, top shaped, very thick flesh and wonderful mild flavor.

Pkt. 10c; oz. 65c

LARGE BELL OR BULL NOSE. — The plants are vigorous, compact and very productive, early and mild, fruit large, bright crimson when ripe.

Pkt. 10c; oz. 60c

RED CHILI. — A small, pointed, bright red variety. The pods are used in making chili and pepper sauce, and are very pungent and hot; very productive.

Pkt. 10c; oz. 75c

CAYENNE. — Long, red, pointed pods; very strong and used largely for making pepper sauce; popular variety.

Pkt. 10c; oz. 75c

PARSNIP

While highly appreciated for the table the great value of the parsnip for stock feeding is, but little known. The roots are very rich in saccharine food, adding to the richness of the milk when freshly dug and fed to cows.

Culture.—Sow as early in the spring as the weather will admit in drills 18 inches apart and ½-inch deep, in a rich, deep soil; thin out 3 to 6 inches apart in the rows. The quality of the roots is improved by leaving them in the ground over winter for spring use.

SWEET MARROW

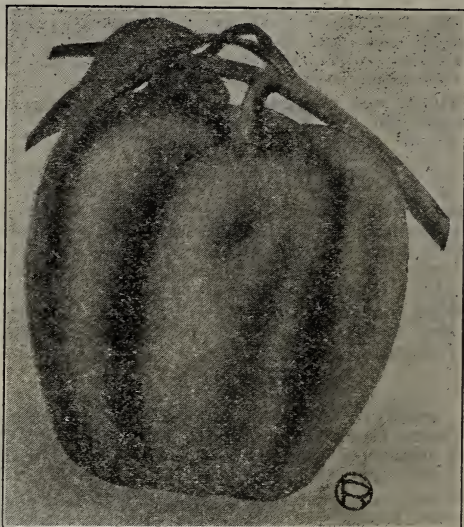
This fine new parsnip of English origin is offered with full confidence that it will become a prime favorite with all who use it. It is very fine grained and exceedingly sweet, while the peculiar "parsnip" flavor is fully preserved. The roots are unusually smooth and attractive in appearance. The best of all parsnips for the private or market gardens.

Pkt. 10c; oz. 20c; 4 oz. 50c; lb. \$1.50

HOLLOW CROWN

The most popular variety; medium length roots, very smooth and of the finest quality. Derives its name from a depression at top of crown or root; very fine table sort.

Pkt. 5c; oz. 20c; 4 oz. 40c; lb. \$1.25



Ruby King Pepper

CHERRY RED.—Rich, glossy, scarlet fruit at maturity; small, smooth and round; of dwarf habit.

Pkt. 10c; oz. 75c

PEANUTS

As we have had many calls for peanuts for planting and know that they do fairly well in the Northwest, we offer two good kinds.

Culture.—Remove the shell carefully so as not to break the skin and plant 10 inches apart in rows, cover 2 inches. Warm, sandy, rich loam soil is best. When grown, pull up and dry in the sun.

IVERSON'S IMPROVED.—Early, large, and productive, yielding few imperfect pods and less "pops" than any other sort.

Large pkt. 10c; lb. 60c

EARLY SPANISH.—Although small, this variety is especially adapted to the north. Yields heavily, pods solid and unusually well filled. Sweeter and more delicious than the larger varieties.

Large pkt. 10c; lb. 60c

Peanuts

POSTPAID.—All seeds in packets and single pounds are postpaid. You can't afford to send East. We save you time and money.

PUMPKIN

DOUBLE THE YIELD AND SIZE OF YOUR PUMPKINS by using a handful of "WONDER" Fertilizer to each hill and be sure you mix it well with top soil. (See page 38.)

Winter Luxury

An enormously productive variety of medium size and superior keeping qualities. Of rounding shape, about 10 inches in diameter; golden russet color, finely netted, rich, deep golden flesh; sweet and tender. By far the best for pies; try it.

Pkt. 10c; oz. 20c; 4 oz. 50c; lb. \$1.50

Small Sugar

Fine grained, very sweet and excellent keeper. Skin deep orange yellow.

Pkt. 5c; oz. 15c; 4 oz. 50c; lb. \$1.25

King of Mammoths

The largest of all; grow this variety to win the prizes at the fair.

Pkt. 10c; oz. 25c; 4 oz. 60c; lb. \$1.75

Connecticut Field

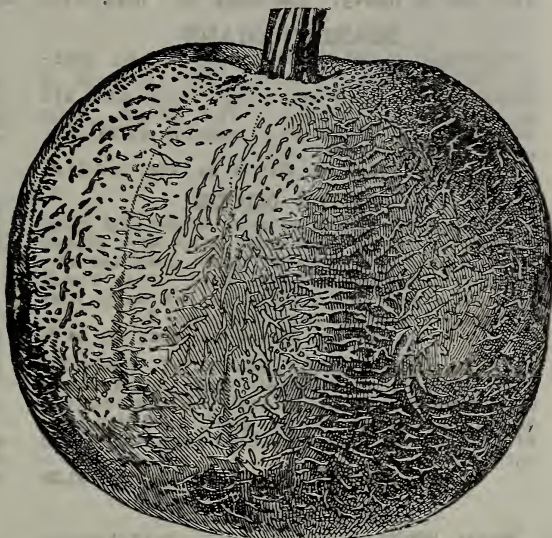
The best for field culture and excellent for stock.

Pkt. 5c; oz. 20c; 4 oz. 45c; lb. \$1.25

Large Sweet Cheese

A popular variety; fruit flattened; skin mottled light green and yellow; flesh yellow, thick and tender; very nutritious and of excellent quality; a most productive variety.

Pkt. 10c; oz. 20c; 4 oz. 45c; lb. \$1.25



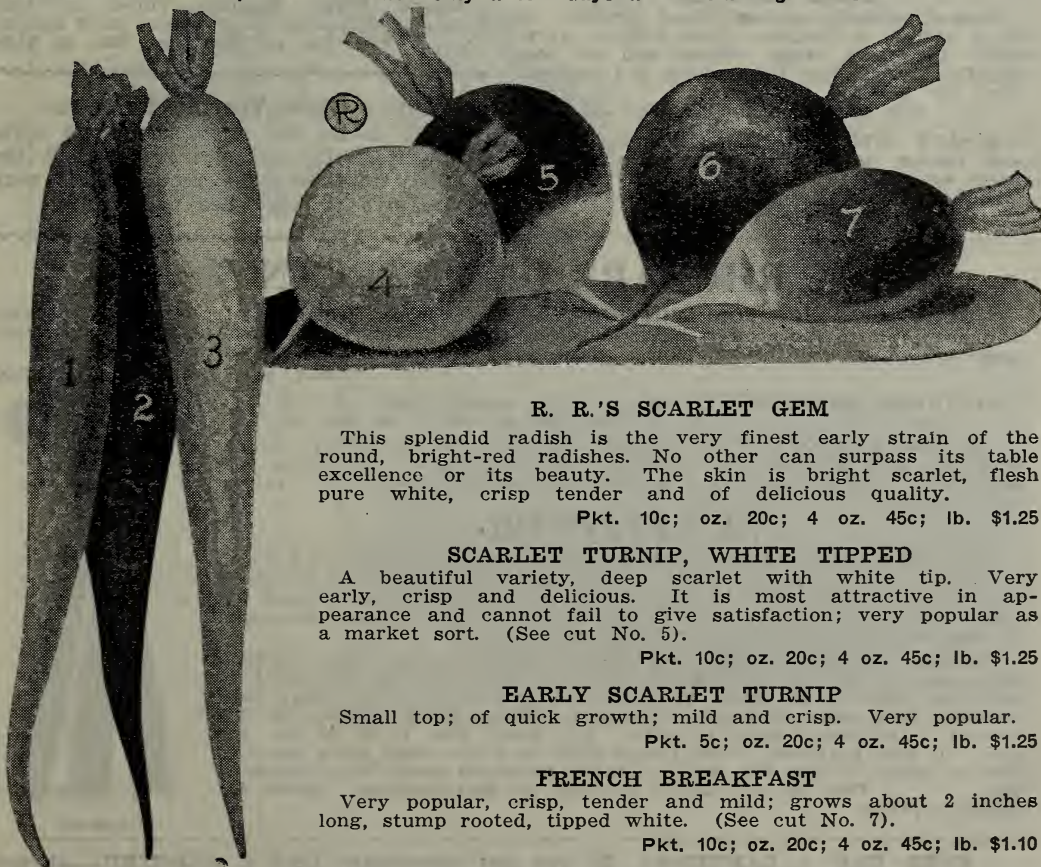
Winter Luxury Pumpkin

"Highest Quality"

RADISH

"Highest Quality"

REMEMBER.—For a continuous supply of crisp, tender Radishes, sow seed every week, as they remain in "prime" condition only a few days after attaining full size.



R. R.'S SCARLET GEM

This splendid radish is the very finest early strain of the round, bright-red radishes. No other can surpass its table excellence or its beauty. The skin is bright scarlet, flesh pure white, crisp tender and of delicious quality.

Pkt. 10c; oz. 20c; 4 oz. 45c; lb. \$1.25

SCARLET TURNIP, WHITE TIPPED

A beautiful variety, deep scarlet with white tip. Very early, crisp and delicious. It is most attractive in appearance and cannot fail to give satisfaction; very popular as a market sort. (See cut No. 5).

Pkt. 10c; oz. 20c; 4 oz. 45c; lb. \$1.25

EARLY SCARLET TURNIP

Small top; of quick growth; mild and crisp. Very popular.

Pkt. 5c; oz. 20c; 4 oz. 45c; lb. \$1.25

FRENCH BREAKFAST

Very popular, crisp, tender and mild; grows about 2 inches long, stump rooted, tipped white. (See cut No. 7).

Pkt. 10c; oz. 20c; 4 oz. 45c; lb. \$1.10

RADISH — Continued

Rake a liberal amount of our kiln-dried pulverized cow manure into your Radish bed if your soil is heavy. See page 38. Mag-o-tite, see page 121; prevents wormy radishes.

SCARLET GIANT

"Crimson Giant." The largest early scarlet turnip-shaped radish. The flesh is a sparkling white, solid, crisp, juicy and are of the mildest flavor. The bright, deep crimson color of the skin remains quite constant. (See cut No. 6.)

Pkt. 10c; oz. 20c; 4 oz. 45c; lb. \$1.25

WHITE TICOLE

This superb radish is pure white and most attractive. It is not only crisp and tender when young, but retains these qualities until the roots attain large size. It is ready for use almost as quickly as the early turnip-shaped sorts. (See cut No. 3.)

Pkt. 10c; oz. 20c; 4 oz. 45c; lb. \$1.25

LONG BRIGHTEST SCARLET, WHITE TIPPED.—The brightest and handsomest long scarlet radish known. Roots mature quickly and continue in good condition until full grown. Of excellent quality. (See cut No. 1.)

Pkt. 10c; oz. 20c; 4 oz. 45c; lb. \$1.25

EARLY SNOWBALL

Model White Box. A grand improvement on the White Box or White Turnip Radish; very early, of a clear white color, solid, juicy, crisp, tender and unsurpassed in flavor. (See cut No. 4.)

Pkt. 5c; oz. 10c; 4 oz. 30c; lb. \$1.00

LONG SCARLET

Grows perfectly straight and smooth 6 to 7 inches in length. Skin scarlet, very thin; the flesh crisp, brittle and of delightful flavor; the finest long red radish. (See cut No. 2.)

Pkt. 5c; oz. 10c; 4 oz. 30c; lb. \$1.00

WHITE STRASBURG.—Continues crisp and tender until fully matured, when the roots are 4 to 5 inches long and about 2 inches in diameter. This is considered one of the best large summer sorts.

Pkt. 5c; oz. 15c; 4 oz. 35c; lb. \$1.25

RHUBARB OR PIE PLANT

BURBANK'S CRIMSON WINTER.—The new variety, which has become very popular and profitable to the grower, has a delicious fruitily flavor, is extremely hardy, very prolific and very quick growing. Produces good stems all winter and spring.

Pkt. 10c; oz. \$1.00; 4 oz. \$3.00

VICTORIA, OR MAMMOTH.—Very large; most popular variety.

Pkt. 10c; oz. 20c; 4 oz. 50c; lb. \$1.50

RHUBARB ROOTS.—From October to June we can always supply one, two, and often larger clumps of Rhubarb Roots. Customers will save much valuable time by ordering roots instead of seed. For prices, etc., see page 115.

SUNFLOWER

MAMMOTH RUSSIAN.—The best variety to grow for the seed which is used as a food for poultry and parrots. It also makes a good hog feed. Sunflower seeds are rich in oil and protein. Planted in or around the poultry runs they make a good shade during the hot summer days and at the same time produce a valuable feed.

Recently sunflowers have been grown extensively for silage feeding purposes. Yields an enormous amount of feed, said to be equal to corn, not affected so much by frost and grows well even where corn makes a poor crop. Ask your experiment station for a buttetn on this subject. Cultivation same as corn. For silage sow 12 to 20 lbs. per acre; for seed purposes, where plants must be given much more space to mature heads, 5 lbs. per acre. Heavy, re-cleaned seed, high germination.

Pkt. 5c; oz. 10c; 4 oz. 20c; lb. 40c; postpaid. Write for quantity price.

WINTER RADISHES

The merits of Winter Radishes are little appreciated. These grow to large size and keep well for winter and spring use. Sow seed in July and August. Early planting is not advisable.

NERIMA — Japanese Long White

A late fall and winter radish. It grows from 12 to 30 inches long and about 2 inches in diameter. Skin white and smooth, flesh firm, crisp, tender and mild.

Pkt. 10c; oz. 25c; 4 oz. 75c; lb. \$2.25

California Mammoth White.—Also called Chinese White Winter or Celestial. A long, thick, stump rooted variety. Pure white. The flesh is tender and crisp, keeping well through the winter.

Pkt. 10c; oz. 20c; 4 oz. 50c; lb. \$1.50

SAKURAJIMA. — Japanese variety that grows to an immense size, almost globe shaped. The skin is smooth and white, and the flesh is always mild, crisp and tender.

Pkt. 10c; oz. 20c; 4 oz. 50c; lb. \$1.50

China Rose.—Bright rose color, flesh firm and piquant, largest at the bottom. One of the best. Pkt. 10c; oz. 20c; 4 oz. 50c; lb. \$1.50

Long Black Spanish.—Very popular; latest, as well as the hardiest. Roots of medium size, oblong, black.

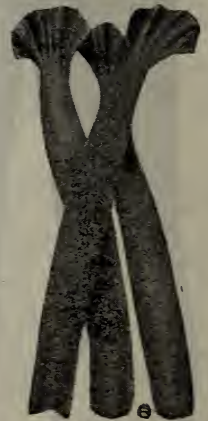
Pkt. 10c; oz. 20c; 4 oz. 50c; lb. \$1.50

Round Black Spanish.—Three or four inches in diameter; flesh white; good keeper.

Pkt. 10c; oz. 20c; 4 oz. 50c; lb. \$1.50

Don't Grow Wormy Radishes

There is no use of it, since we offer Mag-o-tite. It will positively keep the worms away from the roots and is very inexpensive to use. See page 121.



Rhubarb

EVER USE A LANTERN? If you do, investigate **DAD'S ELECTRIC**—always ready—no danger from fire; makes "night time a light time." See page 129.

SALSIFY OR VEGETABLE OYSTER

One of the most desirable winter vegetables. The roots when cooked are very palatable and nutritious and are served in a variety of ways. The flavor is similar to oysters. Salsify succeeds best in a light, well enriched soil, which should be stirred to a good depth. Coarse and fresh manure should be avoided, as it will surely cause the roots to grow uneven and ill-shaped. Sow early and quite deep, giving the general culture recommended for parsnip. The roots are perfectly hardy and may remain out all winter. Frost does not injure the roots; may be stored in a pit or in a very cool cellar.

MAMMOTH SANDWICH ISLAND

This variety is large and strong growing with long, smooth, white, tapering roots, and is less liable to branch than the other sorts. It is invaluable for market gardeners' use. Pkt. 10c; oz. 25c; 4 oz. 75c; lb. \$2.50

SPINACH

Plant in the richest soil you have very early in the spring or not until fall for winter use, as it does not do well in hot weather.

IMPROVED THICK-LEAVED. — A variety which grows very rapidly, forming a cluster of large, very thick, slightly wrinkled leaves of fine color and quality when cooked; best for market gardeners.

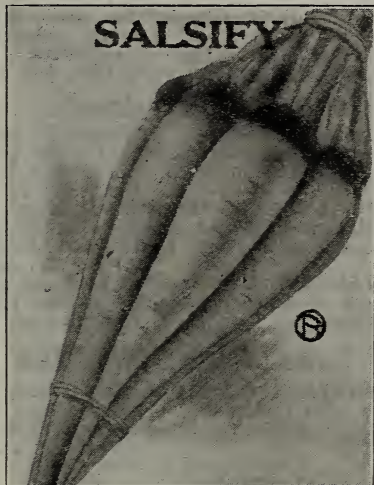
Pkt. 10c; oz. 15c; 4 oz. 35c; lb. 75c

NEW ZEALAND.—Unlike true spinach in type and in that it thrives during hot weather and in any soil rich or poor. The tender shoots are of good quality and may be cut throughout the summer. The plant becomes quite large and spreading. The leaves are comparatively small, broad and pointed. Germination of the seed can be hastened by soaking in warm water twenty-four hours.

Pkt. 10c; oz. 20c; 4 oz. 60c; lb. \$2.00

LONG STANDING.—An improved variety of excellent quality for general use; slow going to seed. Remains in good condition longer than most. Dark, rich green.

Pkt. 10c; oz. 15c; 4 oz. 35c; lb. 75c



Improved Thick Leaved

BLOOMSDALE SAVOY LEAVED.—Very early; of upright growth; leaves broad and pointed, dark green, fine quality; grows quickly. Good for all seasons.

Pkt. 10c; 1 oz. 15c; lb. 75c

PRICKLY WINTER.—Very desirable; very hardy and easily grown; bears large, smooth broad pointed leaves. Color, bright green. A fine winter and spring variety.

Pkt. 10c; oz. 20c; 4 oz. 40c; lb. 85c.

SQUASH

Delicata Squash

A perfect all-season squash. A summer and winter crop on one plant. Produces 15 to 20 fruits to a vine that are as deliciously flavored as the winter kinds.

It is ready almost as soon as the early summer sorts. Of excellent flavor, and remains in perfect condition a long time. The fruits are about 9 inches long, and as shown in the cut, slightly ribbed. When ripe, the ground color is deep yellow, irregularly striped and marbled with dark olive-green.



Delicata Squash—Try It

The flesh is thick, of fine texture, and pale-yellow in color. It is unexcelled for baking—the shape and size make it perfect for this purpose. When boiled it turns out dry, mealy and sweet. Excellent for pies.

Pkt. 10c; oz. 25c; 4 oz. 65c; lb. \$1.75

Make liquid manure from "C-M" (pg. 38) and give each hill a quart or two occasionally during hot weather. The results will surely surprise you.

SQUASH—Continued

Mammoth White Bush Scallop

The fruit is a beautiful, clear, creamy white; superior in size and beauty, and is quite uniformly warty. The handsomest of the scalloped squashes. The stock we offer is exceptionally true to type. Pkt. 10c; oz. 20c; 4 oz. 40c; lb. \$1.50

Golden Summer Crookneck

Early and prolific. The fruits are of the true crookneck type, heavily warted and of light golden color. One of the most popular sorts for home and market.

Pkt. 10c; oz. 20c; 4 oz. 40c; lb. \$1.25

VEGETABLE MARROW.—Long White Bush. A very popular sort abroad and can be raised equally well here. Is long and slim, color white, with delicious white flesh.

Pkt. 10c; oz. 20c; 4 oz. 40c; lb. \$1.50

YELLOW BUSH SCALLOP.—A very early, flat, scallop variety of large size; color yellow; flesh pale yellow and well flavored.

Pkt. 5c; oz. 15c; 4 oz. 35c; lb. \$1.25

FALL AND WINTER VARIETIES

BOSTON MARROW.—A popular variety for canning; large oval fruit; skin bright reddish orange, with light cream netting; flesh rich orange, fine grained and of excellent quality.

Pkt. 5c; oz. 15c; 4 oz. 35c; lb. \$1.25

Mammoth Chili

The largest of all squashes, growing to an enormous size, often weighing over 200 pounds while its rich, fine flavored flesh insures its value for all purposes. Its size makes it valuable for stock feeding. Pkt. 10c; oz. 20c; 4 oz. 60c; lb. \$2.00

Golden Hubbard

The same in size, shape and quality as the well-known Hubbard Squash, except that it is a bright red or golden color and somewhat earlier. It is also a long keeper; considered by expert judges to be one of the very best fall and winter sorts yet introduced. Matures before the frosts; is vigorous and wonderfully productive. In flavor it has no equal. Pkt. 10c; oz. 20c; 4 oz. 60c; lb. \$2.00

Delicious

Finer-grained and more delicious than the well-known Hubbard. The color of skin is green or blue-black. Medium size, weighing from 5 to 10 pounds. The shell is not very thick, but is hard and strong; small

seed cavity; the flesh is very thick, of a bright yellow color, fine-grained and of splendid quality. For table use, either as a fall or winter squash, it cannot be excelled. Pkt. 10c; oz. 20c; 4 oz. 50c; lb. \$1.75

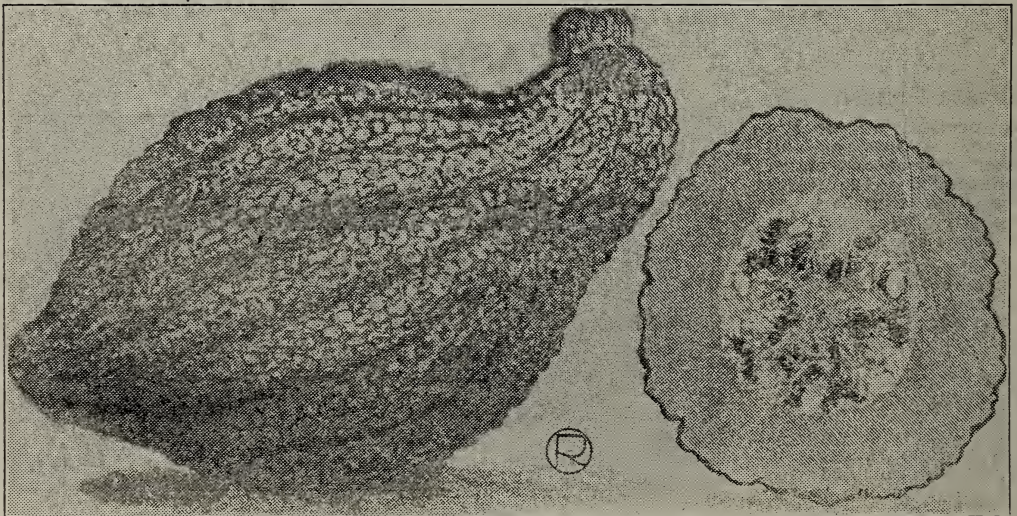
True Hubbard

One of the best of the winter squashes. Vines vigorous and very productive. Fruit large, heavy, moderately warted with very hard shell. Skin uniformly dark bronze-green. Flesh bright orange-yellow, fine grained, thick, dry and richly flavored. Can be kept in good condition until spring. Our seed is carefully selected and is much superior to most offered.

Pkt. 10c; oz. 20c; 4 oz. 60c; lb. \$2.00



See **DAD'S ELECTRIC LANTERN**, page 129.



True Hubbard.—Note the thickness of the flesh.

DOUBLE the yield of your squash by using a cupful of "WONDER" Fertilizer to each hill. (See page 38.) You know the richer your ground, the larger the yield, and Wonder Fertilizer certainly contains more plant food than any other brand.

TOMATO

Tomato Plants in any quantity. See Vegetable Plant list, page 37.



Comet

The Best Tomato for Green-house Forcing.—A recent variety, matchless in form and color. Beautiful, smooth, round fruit in great abundance. Color a rich scarlet red. Sets very freely in bunches. Equally good for outdoor culture as for forcing.

Pkt. 10c; ½ oz. 25c; oz. 40c; 4 oz. \$1.25.

Chalk's Early Jewel

The largest, smoothest and finest flavored, extra early bright red tomato, about 10 days later than Spark's Earliana. It is a heavy cropper with tomatoes of larger size, sweeter flavor, produced throughout the season. The plants are of bushy, compact growth, heavily loaded with fruit. The tomatoes are just right for market; very solid and deep through, being almost round; ripening to the stem without cracks or green core. The flesh is thick, solid, of fine flavor, with few seeds.

Pkt. 10c; ½ oz. 25c; oz. 40c; 4 oz. \$1.25.

Routledge's Early Oregon

Very hardy and succeeds everywhere. The Early Michigan, Fordhook and Atlantic Prize were good sorts "in their day," but the Early Oregon is superior to these in shapeliness, color, size, smoothness, solidity and flavor, as well as being earlier. Those wishing to have the earliest "GOOD" tomato should raise our Early Oregon. Highly recommended for the home or market gardener. Try it; you will not be disappointed.

Pkt. 10c; ½ oz. 30c; oz. 50c; 4 oz. \$1.50

Bonny Best

Highly prized by many Oregon growers. Tomatoes large, smooth and of a rich scarlet red, the color that sells quickly. Fruit thick with a small core, a profitable tomato for any purpose. Slices exceptionally well. Flesh and flavor excellent. Nearly globe shaped, slightly flattened at stem. Borne in clusters of 5 to 6 fruits all ripening evenly together. Very productive and one of the very earliest.

Pkt. 10c; ½ oz. 25c; oz. 45c; 4 oz. \$1.25

Husk or Ground Cherry

Used for preserves and eating from the hand. The seed we offer is that of the true Yellow Ground Cherry, not the purple-fruited sort, which is scarcely edible.

Pkt. 10c; oz. 50c; 4 oz. \$1.50

Spark's Earliana

The earliest tall variety, forming ripe fruit much earlier than most early varieties. The fruit is large, smooth, of a bright scarlet color and of fine quality. Very valuable for early market use.

Pkt. 10c; oz. 40c; 4 oz. \$1.25

STONE.—Grown very extensively for a main crop by market gardeners; very large, smooth and solid, of a bright red color and a heavy yielder; of excellent quality and not subject to rot. Pkt. 5c; oz. 30c; 4 oz. \$1.00

DWARF CHAMPION.—Forms a strong, erect, bushy plant 2 feet high; often sold as Tree Tomato. Fruit smooth, medium sized, solid and of good flavor.

Pkt. 10c; oz. 40c; 4 oz. \$1.25

YELLOW OR RED PEAR.—Used for preserves and to make "tomato figs." Fruit distinctly pear shaped and of excellent flavor.

Pkt. 10c; oz. 50c

RED PLUM.—Same prices as above.

RED OR YELLOW CHERRY.—Fruit small, about ⅝-inch in diameter; perfectly round and smooth; fine for pickles and preserves.

Pkt. 10c; oz. 50c

TOBACCO

Culture practically same as cabbage.

Havana or Connecticut Seed Leaf.—Both good, hardy varieties for general planting here.

Pkt. 10c; oz. 75c

Increase the yield and quality of your Tomatoes by using a good plant food. See page 38. **WONDER ODORLESS FERTILIZER** will do it; a spoonful to a plant.

HIGHEST QUALITY

TURNIPS

HIGHEST QUALITY

For spring use sow very early in rich, loose ground. They must make a quick growth to be tender and sweet. For fall and winter use sow in July, August or early September.

Beware of low-priced turnip seed this year. The country is full of cheap seed grown from small scrub field roots.

**Extra Early
WHITE MILAN TURNIP
The Very Earliest**

An excellent table turnip, and the earliest of all varieties; adapted for very early spring or fall planting. The tops are small; the bulbs of medium size, flattened, and ivory-white in color. The flesh is fine-grained, tender, and of a mild, sweet flavor. It remains in good condition for a long period of time, and does not become pithy or stringy.

Pkt. 10c; oz. 25c; 2 oz. 45c; 4 oz. 75c; lb. \$2.00

Orange Jelly, or Golden Ball

Delicate and sweet, yellow flesh, medium in size, firm, crisp and most excellent flavor; keeps well and is superior as a table variety.

Pkt. 10c; oz. 15c; 4 oz. 40c; lb. \$1.25

Early White Flat Dutch

A leading white fleshed variety; either for the family, market garden or field crop; it is medium size and produces a large crop; the flesh is firm, but tender, and of a superior rich, buttery flavor; a good keeper.

Pkt. 10c; oz. 20c; 4 oz. 45c; lb. \$1.25

Early Snowball

A superior table variety, meltingly tender, with snow-white flesh. Matures six weeks after sowing; medium size, smooth and perfectly globular.

Pkt. 5c; oz. 20c; 4 oz. 40c; lb. \$1.25

White Egg

Is perfectly smooth, of a pure clear white; a very choice kind for table use; of excellent flavor, sweet and mild; pulls clean from the ground; thin, snow-white skin. Egg shaped.

Pkt. 10c; oz. 20c; 4 oz. 40c; lb. \$1.25

Early Purple Top Milan

This variety is ready for the table almost as early as White Milan; flesh white, firm and delicate.

Pkt. 10c; oz. 20c; 2 oz. 35c; 4 oz. 60c; lb. \$2.00

Raise No More Wormy Turnips



A new and wonderful powder for destroying maggots, grubs and worms which infest Turnips and root crops.

A marked increase in vigor and growth follows its use. See page 121.

Early Purple Top (Strap Leaved)

One of the best and universally grown; flesh firm, but very tender and sweet; of quick growth; attains large size, profitable for stock, keeps well.

Pkt. 10c; oz. 20c; 4 oz. 45c; lb. \$1.00

Purple Top White Globe

A very heavy cropping, globe-shaped variety, with white skin and flesh, excellent flavor and much in favor with the market gardeners.

Pkt. 10c; oz. 15c; 4 oz. 40c; lb. \$1.00

Yellow Aberdeen

Round, medium size, light yellow; produces a large crop; is hardy and keeps well; flesh very firm, but tender and sweet; a great favorite with the dairymen for feeding cows.

Pkt. 5c; oz. 15c; 2 oz. 25c; 4 oz. 45c; lb. \$1.00

Cowhorn (Long White)

Slightly crooked, pure white, except a little shade of green at the top; grows half out of the ground and is of very rapid growth. Has proved itself one of the best stock turnips ever introduced in Oregon.

Pkt. 10c oz. 15c; 2 oz. 25c; 4 oz. 45c; lb. \$1.25

For valuable and "up-to-date" books on Gardening and Poultry, see pages 128-129.



Extra Early White Milan Turnips



American Purple Top

RUTABAGA — SWEDES

For feeding stock in fall and winter there is nothing superior to turnips and rutabagas, as they are much liked by all kinds of stock, and serve to keep them in good condition.

Improved American Purple Top

The leading and most popular variety, being very distinct in type, attaining a wonderfully large size; immense yielder; the flesh is very firm, cream yellow, fine grained, sweet and tender. Excellent both for table and stock feeding. Keep all winter.

Pkt. 10c; oz. 20c; 2 oz. 35c; 4 oz. 50c; lb. \$1.25

White Sweet Russian

This variety is most excellent either for table or stock; it grows to a very large size; flesh white, solid, of a firm texture, sweet and rich an excellent keeper.

Pkt. 10c; oz. 20c; 4 oz. 45c; lb. \$1.25

HERB SEEDS

Pot, Sweet and Medicinal

Herbs in general delight in rich, mellow soil. Those marked with a (*) are perennial.

All the Flowering Herbs 10c per Packet, unless Otherwise Priced.

	Oz.	Oz.
Anise.—Seeds aromatic; used medically.	35c	
*Balm.—For culinary purposes; Pkt.	15c	75c
Basil.—Sweet; for flavoring soups.	50c	
Borage.—For flavoring; also bee pasture.	50c	
Caraway.—For flavoring	30c	
*Catnip.—Mild nerveine	\$1.00	
Coriander.—Used for flavoring	25c	
Dill.—Used medicinally and for pickles.	25c	
*Fennel.—Flavor of celery	35c	
*Horehound.—Bitter; for tonic		75c
*Hysop		75c
*Lavender.—True, for fragrance		75c
*Marjoram.—Sweet; for flavoring		\$1.00
*Rosemary.—Aromatic oil		\$1.00
Summer Savory.—For flavoring		75c
*Sage.—For tea flavorings and dressings.		75c
*Thyme (broad leaf).—For soup		\$1.00
*Wormwood.—Medicinal use		Pkt. 75c

VEGETABLE PLANTS

We grow large quantities of choice vegetable plants, and can supply all of the varieties listed below, in their proper season, in most any quantity. We can supply all vegetable plants in two grades—plants direct from the seed beds and those that have been transplanted into shallow boxes. Transplanted plants are much stronger and better rooted, and are well worth the price, especially in the early part of the season. We can supply most any of the leading sorts. Tell us your choice of varieties, and we will send it or give good substitute. NO PLANTS SENT C. O. D. Write for prices on 5 to 10 thousand lots.

NOTE.—Dozen prices only are postpaid. We will send 100 and 1,000 lots by express at your expense, unless you wish to send 35c extra per hundred to pay packing and postage. Tomatoes 50c per 100 extra. Pot-grown tomato plants should have all the dirt left on the roots and are not mailable.

CABBAGE AND GARDEN KALE

	Dozen	100	1000
Transplanted	\$.25	\$1.00	\$8.00
Not transplanted		.75	7.00
Cow kale		.75	6.00

CAULIFLOWER AND BROCCOLI

	Dozen	100	1000
Transplanted	.30	1.25	10.00
Late kinds, transplanted	.30	1.00	8.50
Late, not transplanted	.75	7.50	

CELERY AND CELERIAC T. R.

	Dozen	100	1000
Leading kinds, transplanted	.30	1.25	8.50
Not transplanted		1.00	7.50

SWEET POTATO PLANTS

	Dozen	100	1000
Sweet Potato Plants	.35	1.25	9.00

TOMATOES

Leading kinds, our selection, transplanted	\$.035	\$1.25	\$8.50
Not transplanted		1.00	7.50

Pot Grown Tomato Plants.—These large plants give the most profitable results. Cannot be mailed. Prices: 3-in. pots, 15c each, \$1.50 doz.; 4-in. pots, 20c each, \$2.00 doz.; must go by express, charges collect.

Chives (Schnittlauch).—Per bunch, postpaid, 25c.

Orders filled once every six days during May and June.

WONDER ODORLESS FERTILIZER

The best fertilizer for the city gardener; clean and odorless. Remember, it's **ALL FERTILIZER**; a wonder in action, a giant in strength, and the small amount necessary to use makes it the **CHEAPEST AND MOST EFFICIENT** High Grade Fertilizer on the market, and last, but not least, **IT IS ODORLESS**. We buy it in carload lots.

In "WONDER" you get the "best" in plant food, something which gives results, something that astonishes. This "WONDER" fertilizer is the result of years of study and trials by a fertilizer expert. In "WONDER" we have a meritorious and **ODORLESS** concentrated fertilizer, put up in small packages, thereby making its distribution a cheap and easy matter. Being a concentrated fertilizer, only a very small amount is required to produce the largest yield. (See general directions below.) There's no use of your paying dray and freight charges on bulky fertilizers containing three-fourths sand, ash or dirt filler. "WONDER" is the pure "DOPE"—clean and easy to apply. We guarantee it to give results.

The small amount of "WONDER" required reduces the expense of fertilizing to about one-half the cost of green manure or the average commercial fertilizers on the market. Rich in potash.

The "WONDER" fertilizer is sold only in 25-lb. white, clean canvas bags, 2-lb. odorless cartons and 125-lb. sacks.

Price of "Wonder" Fertilizer

TWO LB. CANS, Not Postpaid, 35c (P. P. Wgt. 2½ lbs.)
25-lb. DRILL BAG, \$2.50; **3 Bags**, \$7.00; **large 125-lb. sack**, \$10.50.

NOTE.—If wanted by parcel-post add postage. "Wonder" is odorless and 2-lb. cans and 25-lb. bags can go by mail cheaper than express or freight in most cases.

General Directions for Using Wonder

Remember, a 25-lb. bag of "WONDER" is equal, in plant food, to 100 lbs. of most any other commercial fertilizer on the market.

For Ferns and House Plants: One-half teaspoonful to a 6-in. pot, dug into the top soil; 1 teaspoonful, heaping, when repotting, mix well through the soil.

For Vegetables: A teaspoonful to a Cabbage, Tomato, Cucumber, Pumpkin or Melon Vine. Sprinkle over the top soil before planting Radish, Lettuce, Peas, etc., or hoe in after they are up. **For Flowers outside:** A very little to each plant, or cultivate into the top soil before or after planting. Use 1 lb. to 10 foot square.

For the Lawn: One 25-lb. bag of "WONDER" will go over a space of your lawn 50x50 or 2,500 square feet, and is sufficient for same, applied once yearly. In dry weather always water after applying. Double the amount when making new lawns.

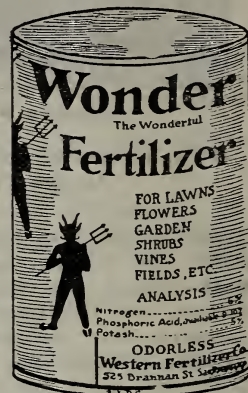
For Fruit, Roses, Etc.: A heaping tablespoonful for a small Fruit, Berry, or Rose Bush, a cupful for a 3 or 4-year tree; 1 to 3 lbs. to a full bearing Fruit Tree, large Flowering Shrub or Vine.

CAUTION! Always mix the fertilizer into the top soil as much as possible, and water or sprinkle after applying it, especially on grass or tender foliage or growth.

Ask for "WONDER" **20-PAGE BOOKLET** that gives plain facts and full information and directions for all purposes. **FREE.**

NOTE.—Three sacks "C. M." (see opposite page) and one sack of "Wonder" mixed together will make a very rich combination fertilizer that will prove highly satisfactory for all uses—as it will be very rich in plant food and supply the necessary humus for heavy soils.

ASK FOR
 24-Page
 "Wonder"
 Booklet
 TELLS ALL



Read This 1921 Report

R. E. Southerlin of Newberg made a TEST of WONDER FERTILIZER last season. He bought from two other seed houses their best fertilizer, and of course at a much less FIRST cost than the "WONDER" he bought of us, but at harvest time he reported that "WONDER FERTILIZER" gave him BY FAR the BEST RESULTS and at A LESS COST PER ACRE.

Hundreds of our customers praise "Wonder."

You try it and be convinced. Your report, please.



Kiln-Dried Pulverized Cow Manure

For Short, We Call It "C. M."

Supplies the "Humus" lacking in chemical fertilizers and the analysis shows it to be quite rich in nitrogen, potash and phosphoric acid. It will not burn or harm the most tender seeds or plants.

This product is made of green cow manure by putting it through a dry-kiln with heat enough to evaporate the water and kill all weed seed without burning the compost or destroying the fertilizing elements. It is then ground finely and sacked.

Hundreds of our Gardeners and Farmers have discovered its great value, and are buying large quantities.

EIGHT TO ONE.—You can get a good idea of the value of this concentrated product when we state that it takes 8 to 10 tons, in the green or natural state, to make 1 ton ready to sack. We are offering, in a most convenient dry state, a fertilizer and compost that heretofore you have bought by

the wagon load, in a most dirty, foul and disagreeable form.

SUPPLIES THE HUMUS.—This new product supplies all the humus and fertilizing value of the old form, without the disagreeable odor, coarse straw, chaff and weed seeds. In fact you get everything in an ideal form except the live weed seed and moisture. You do not want the weeds and can easily apply water when needed. There is no use of paying dray, freight or handling charges for dirty, foul, water-soaked manure when this product can be had.

CHEAPER AND MORE CONVENIENT.—The old form cow manure costs about \$3.50 a load delivered and about \$3.00 or more to get it placed and spaded under. Three sacks of our Dry-Kiln C. M., which is practically odorless and can be spread around by anyone at leisure, will cost less and give better results. It contains no live weed seeds.

Uses and Directions for "C. M."

FOR ROSE BEDS AND BORDERS

FRUIT AND BERRY BUSHES

GRAIN FIELDS AND MEADOWS

Apply "C. M." broadcast at the rate of 3 sacks per city lot; for large fields, 15 to 20 sacks per acre. It will pay to use a ton per acre.

FOR SEED BEDS

As a top dressing over seed beds, where small flower or vegetable seeds are to be started, nothing else could be better, as it is full of "humus" (like leaf-mold) which keeps the top soil loose and open. Rake "C. M." into the top soil or after seeding, sprinkle "C. M." over the surface, and moisten it well.

FOR VEGETABLES AND FLOWERS

Use "C. M." on any soil that needs loosening up and enriching. To raise choice vegetables and large beautiful flowers, the soil must be rich, well worked and loamy. Use "C. M." in liberal quantity and you will be delighted.

FOR LAWNS

"C. M." is just what has been wanted for years by amateur and professional lawn-makers. Heretofore on account of heavy soils that would bake and crack, the best cow manure obtainable was used to open up and keep the soil loose. It was not the plant food needed, as that could easily be applied in the form of Chemical Fertilizer, but it was the "humus" in the stable manure that was wanted, but NOW with this Dry-Kiln, weed free, "C. M." the lawn-maker's troubles are greatly reduced.

HOW TO USE.—After the lawn has been graded, raked, seeded and rolled, spread "C. M." broadcast over the seed, covering it well. If it is dry weather, sprinkle, but sprinkle lightly, but often, so as not to wash it off. It absorbs much water, but slowly at first. After it is once wet it becomes part of the surface soil and will remain.

ANOTHER WAY.—Providing you will use "C. M." in a liberal amount, it would be better raked into the surface soil, then seed, rake lightly and roll.

PRICES OF DRY-KILN "C. M." AT OUR STORE

Large Sks., \$2.00; 3 Sks., \$5.50; 5 Sks., \$9.00; 10 Sks., \$17.50; 20 Sks., \$32.50; small lots—2 Lbs., 15c; 5 Lbs., 25c; 10 Lbs., 40c; 30 Lbs., \$1.00.

With our new fertilizer Dry-Kiln "C. M." to supply humus, and "Wonder," the strongest and richest odorless chemical fertilizer and "Ground Lime," the great soil conditioner, we have a combination that will supply every need. (See pages 38 and 40.)

The day of strong smelling, odorous fertilizers is over, we believe, at least for the city and suburban gardener.

For Liquid Manure—Empty half a sack of "C. M." into a 50-gal. barrel and fill with water. Use this liquid straight or diluted form, for watering. The increased vigor and growth of plants will almost immediately be noticed.

FERTILIZERS—Continued

Fertilizer prices on this page subject to market changes. Write for quantity price.

GROUND LIME ROCK

Lime is an indirect soil improver and a very valuable conditioner, and releases the plant foods. Its application on heavy or clay soil will open it up, make it lighter and more workable. Few people realize its value. Most Western Oregon soils need lime. Use $\frac{1}{2}$ to 1 ton per acre. For heavy clay soil in the garden, double the amount.

Prices: 100-lb. sacks, \$1.25; 500 lbs. \$5.00; write for ton prices.

GARDEN LIME

(Fertilizer Lime.)—This is put through a process that makes it finer and lighter than above. Quicker in action, richer in calcium, and well worth the higher price. Excellent for moss in lawns and general garden and farm lands.

Prices: 5 lbs. 25c; 10 lbs. 40c; 50 lbs. \$1.00; 100 lbs. \$1.75; 500 lbs. \$7.50; write for ton price.

SHEEP GUANO

One of the best natural manures, dried and ground. Concentrated, soluble quick in action, and free from weed seed. Splendid for vegetables; fine for roses and flowers. Excellent for lawns, small fruits, berries, etc., but we really prefer "C. M." See page 39.

Prices: 100 lbs. \$2.25; 500 lbs. \$10.00; write for ton or carload prices.

NITRATE OF SODA

It is very quick in action, stimulating rapid growth. Being quickly soluble, it should not be applied until spring, on garden truck after the plants are above ground. Be careful or it will burn tender foliage.

Prices: Lb. 15c 5 lbs. 50c; 25 lbs. \$1.50; 100 lbs. \$4.25; write for quantity price.

Kirk System of Fertilizing and Spraying

A simple, practical, easy way of spraying or fertilizing. The water as it passes through the feeder, slowly dissolves the cartridge contained therein and is applied upon whatever you wish it.

KIRKE FEEDER.—Consist of cylindrical nickel-plated metal cartridge holder, which is made to connect to any standard size hose coupling, and in which is placed a KIRKE Fertilizer, Insecticide or Fungicide cartridge. Put the feeder or cartridge holder on the end of the hose, then screw on a regular hose nozzle and turn the water on.

Prices Postpaid: KIRKE FEEDERS or Cartridge Holder, \$5.00; CARTRIDGES—Fertilizer 50c; Tobacco \$1.10; Bordeaux 60c; Arsenate of Lead \$1.10; Fly Maggot 60c; Sulphur Compound Spray 60c; Anglemorm Destroyer \$2.00.

Spray and Garden Hose

We offer new stock only of high-grade hose for spray pumps and garden purposes. We advise our customers to buy the best. It is cheapest in the end. Don't buy old stock.

XXX GRADE (Non-Kinkable).—Guaranteed. This hose gives excellent satisfaction. Good enough for any ordinary spraying outfit, and by far the best hose for florists' or gardeners' use. One customer reports that he used a 50-foot length of this grade for 3 seasons continuously, which proves that it is the cheapest hose to buy. We have this on 500-foot reels, and cut any length wanted.

Price per foot, smooth or moulded, $\frac{1}{2}$ -inch, 20c; $\frac{3}{4}$ -inch, 22 $\frac{1}{2}$ c; corrugated, 2c per foot higher.

(Couplings free on 50 ft lengths.)

SPECIAL SPRAY HOSE.—The highest grade extra heavy spray hose made; guaranteed. Price, $\frac{1}{2}$ -in. only, 24c ft.

COTTON HOSE is too high to list this year.

LAWN MOWERS

Space in this catalog does not permit us to list the Lawn Mowers we handle, but if you can call we will be glad to show you good, easy-running kinds, priced very reasonable.

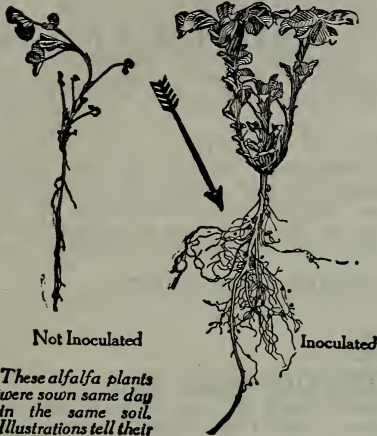
PLANT SMALL FRUITS around your garden. What's nicer than delicious fresh fruit, fresh from your own garden? See Fruit Department, pages 106 to 115.

We Recommend and Sell

Mulford Cultures

FOR LEGUMES

To supply or increase the nitro-gathering bacteria in the soil



These alfalfa plants were sown same day in the same soil. Illustrations tell their own story.

Mulford's experts claim an "ALL-CROP" culture is not practical.

Without these germs a good crop is impossible. Therefore always inoculate the seeds mentioned at planting time with the MULFORD CULTURES, which contain active nitrogen-fixing bacteria. The bacteria in this product have all been proved by actual test to be active and vigorous. It is easily and quickly used by mixing with water and applying to the seed or soil; the directions which accompany each package are so complete and explicit that anyone can use it.

MULFORD CULTURES are "DIFFERENT" and should not be confused with other brands. The count is different (bacterial counts show fully twice as many bacteria as in the old-form cultures). The bottle is different (being sealed—an important feature which prevents all possibility of contamination from the outside air).

Increase Your Crops—Improve Your Soil

Legumes offer the best-known means of maintaining soil fertility and rejuvenating over-cropped and worn-out fields. They add both humus and nitrogen to your soil and thus increase your yield of non-legume crops.

The U. S. Department of Agriculture and many State Agricultural Experiment Stations recommend inoculation of legumes with nitrogen-fixing bacterial to induce a prompt "catch" and increase your yield.

MULFORD CULTURES are scientifically prepared and tested by experts, in the biological laboratories of H. K. Mulford Co., Philadelphia, with the same degree of care as Mulford Antitoxins, Serums, Vaccines, etc., which are standard all over the world.

CAUTION—Be sure to specify the particular legume on which you desire to use the MULFORD CULTURES, OTHERWISE WE WILL NOT KNOW HOW TO FILL YOUR ORDER. We have it for Alfalfa, Red Clover, White Clover, Sweet Clover, Alsike Clover, Field Peas, Vetch, Garden Peas, Garden Beans and Sweet Peas.

The Mulford experts do not believe in an "All-Crop" culture.

PRICES—Quarter acre size, 75c; 1 acre size, \$1.50; 5 acre size, \$5.00, postpaid.

GARDEN SIZE, for Sweet Peas, Garden Peas, Garden Beans, 35c; postpaid, 40c.

Why buy expensive commercial nitrates when you can grow legume crops and thus increase your yield and at the same time increase the nitrates and enrich and renovate your soil by Nature's own method?

MULFORD'S BOOK, "THE EVIDENCE," SENT UPON REQUEST.



GRASS AND FIELD SEEDS

ABOUT PRICES

READ THE FOLLOWING

ABOUT PRICES

Only one grade priced, the best, choice, clean seed. Write for prices in quantity. Single pound prices on Grass and Clover Seeds are prepaid. Prices per ten, fifty and one hundred pounds are not prepaid and are subject to market changes. For reference tables, amount to sow per acre, see inside back cover.

YOU WILL ALWAYS GET YOUR MONEY'S WORTH

Prices on Grass and Field Seeds change occasionally, therefore we cannot print prices good for any length of time. When ready to buy, write us for special prices, stating quantity wanted, order what you want at catalog prices, and we guarantee that we will give you full value for the money sent, whether the price at the time you order be higher or lower. In other words, we will always ship seed to cover the full amount of money sent to us.

FOR AMOUNT TO SOW PER ACRE, SEE INSIDE BACK COVER

SUDAN GRASS

A New Forage and Hay Crop—A Valuable One-Season Crop

This grass was introduced in the States by the Department of Agriculture and has proved a great success, especially for dry-land conditions, and from many reports and observations and samples of the grass shown it appears to do equally well in all parts of the Willamette Valley.

Sudan Grass is strictly an annual and dies each year like Millet and must be seeded again each spring. This makes it fit admirably into any system of rotation, afford a change in crop and this is a good thing for the soil. Sudan Grass is tall, reaching a height of from seven to nine feet. The plant stools wonderfully and produces under favorable conditions as many as 100 stems from a single root.

It belongs to the sorghum family, but is more slender and grassy in manner of growth, earlier and hardier, and matures in 10 to 12 weeks. Yields a good crop of first-class hay. All stock relish it green or cured and thrive on it. Yields of from two to four tons per acre are common, and under irrigation they run as high as eight to ten tons per acre.

Seeding. Do not plant until the soil has become warm in the spring or any time during the summer as a catch crop. Sudan Grass can be sown in rows 12 to 36 inches apart, drilled in with a grain drill or sown broadcast. In the semi-arid sections it is much more profitable to seed it in rows and cultivate, and even in the humid regions a small amount of cultivation appears to give added vigor to the plants. Seeded in drills 36 inches apart, 5 pounds per acre; drills 18 inches apart, 10 pounds; broadcast and harrowed in, 20 to 25 pounds per acre.

Harvesting. Sudan grass is easy to cut with a mower and cures readily. When cut for hay it is best to cut just after full bloom, so that it will have as much time as possible for a second growth. After cutting it renews its growth promptly when moisture conditions are favorable. The grass stools abundantly after first cutting and the second and third cuttings are very fine stemmed.

Every farmer looking for a new forage or hay crop should try at least an acre or two. Beware of cheap, inferior seed.

Prices, Select, Tested Seed: 10 lbs. \$2.00; per lb. 25c postpaid. Write for quantity price.

KENTUCKY BLUE (*Poa Pratensis*)

One of the best grasses for permanent pasture furnishing a constant supply of the most nutritious feed during the greater part of the year.

Fancy, 10 lbs. \$4.00 per lb.; postpaid 45c.

For Lawns.—Blue Grass is used very extensively for lawns and is found in all lawn grass mixtures.

Our H. Q. (highest quality) Extra Fancy seed is unexcelled for weight and purity. Few dealers handle this high grade re-cleaned seed on account of its cost. This seed, straight or mixed with Fancy White Clover, is excellent for lawns.

H. Q. extra fancy, 10 lbs. \$4.50; per lb. postpaid 50c.

ENGLISH RYE GRASS (*Lolium Perenne*)

A strong-growing, hardy perennial grass, noted for its nutritive qualities. It is

equally valuable for both grazing and hay. It grows very rapidly and makes a good showing in a few weeks.

10 lbs. \$1.75; 50 to 100 lbs. @ 15c lb.; per lb. postpaid 25c.

For Lawns this is used and recommended by many gardeners. Unless sown thickly (1 lb. to 15 feet square), it grows too coarse. For large grounds and parks it is very successful. Often mixed with White Clover. For lawns we offer a high-grade double cleaned perennial seed.

10 lbs. \$2.25; 50 to 100 lbs. @ 20c; per lb. postpaid 30c.

MESQUITE (*Holcus Lanatus*)

It is usually sown on virgin soil, without cultivation, after the ground has been burned over.

Fancy Hulled Seed, 10 lbs. @ \$2.35; 50 to 100 lbs. @ 21c; per lb. postpaid 35c.

NOTE.—We know you can buy cheaper Grass Seeds from other dealers. We offer only the **BEST RECLEANED HEAVY CLEAN SEEDS**—by far cheapest to buy.

GRASS SEEDS—Continued

For amounts of seed to sow per acre, see inside back cover

ORCHARD (Dactylis Glomerata)

Of the greatest value in permanent pasture mixtures; thrives best in moist, shady places, but will withstand drought exceedingly well. Will do well under trees, or shady places. Valued for hay crop, as it is very nutritious if cut early.

10 lbs. \$3.00; 50 to 100 lbs. @ 27c; per lb. postpaid 35c.

RED TOP (Agrostis Vulgaris)

Of great value for mixing with hay or permanent pasture grasses; will succeed in nearly any soil, but thrives best in a rich, moist soil; makes a fine bottom growth, rendering it invaluable to be sown with timothy, orchard or alsike clover.

Choice Seed, not hulled, 10 lbs. \$2.20; 50 to 100 lbs. @ 20c; per lb. postpaid 30c.

Fancy Hulled Seed, 10 lbs. \$2.75; 50 to 100 lbs. @ 25c; per lb. postpaid 35c.

ITALIAN RYE (Lolium Italicum)

A quick-growing grass, attaining a height of 2½ to 4 feet; very desirable for meadows or permanent pastures; thrives best on soils that are slightly moist, and will even stand considerable overflow; grows easily and bears an abundance of foliage that makes the best and sweetest hay imaginable.

Imported Seed, 10 lbs. \$1.75; 50 to 100 lbs. @ 15c; per lb. postpaid 30c.

RHODE ISLAND BENT (Agrostis Canina)

Forms a very fine turf even on light soils; desirable for lawns, as it forms a very close sward. Price postpaid 65c.

TIMOTHY (Phelum Pratense)

As a hay crop, timothy is unsurpassed by any other grass. Thrives on ordinary soil, but succeeds best in a moist loam. Best to

cut it when in blossom or soon after flowering. Beneficial to sow timothy with red top and red clover, as they produce more of a bottom growth.

10 lbs. \$1.75; 50 to 100 lbs. @ 15c; per lb. postpaid 25c.

MEADOW FESCUE (English Blue Grass)

Perennial; grows three to four feet high. Roots deep, thus resisting drought. It succeeds on any ordinary soil; a heavy cropper, excellent for hay or pasture.

10 lbs. \$4.00; per lb. postpaid 50c; 50 to 100 lbs. @ 35c.

BROMUS INERMIS (Brome Grass)

On account of its strong perennial character, and its unusual drought-resisting powers, is the best grass we have for the semi-arid regions of the Northwest. It grows luxuriantly, is freely eaten in either the dry or green state by cattle, and yields enormously, making the best of hay for horses or cattle.

10 lbs. \$3.75; 50 to 100 lbs. @ 35c; per lb. postpaid 50c.

CRESTED DOG'S TAIL (Cynosurus Cristatus)

A perennial grass, forming a smooth and lasting turf, excellent in mixtures for lawns, putting-green, and pastures. It thrives best on rich, moist land, but can accommodate itself to almost any soil, and, as the roots penetrate deeply into the ground, it can stand severe drought.

10 lbs. \$4.25; per lb. postpaid 50c.

Wild Rice

As an attraction for wild ducks, it is in great demand for planting in small lakes, slow moving streams and ponds by gun clubs and owners of duck preserves. Seed may be sown in autumn or early spring. Plants may be set out in May or June. Full cultural directions accompany each shipment. Prices, seed, \$20.00 per bushel; \$6.00 per sack. Plants: \$6.00 per crate of several hundred plants.

Wild Celery

This plant does not resemble garden celery, but is a species of grass growing wholly submerged. Great for duck lakes. Prices, seed: \$20.00 per bushel; \$6.00 per peck. Bulbs: \$6.00 per crate of about 200 bulbs. Plants: Same price as bulbs. Full directions for planting goes with each shipment.

FIELD AND FARM SEEDS

Single pound prices are prepaid. Ten, fifty and one hundred pound prices are NOT prepaid and subject to market changes. See notes about shipping, page 42.

White Jerusalem Artichokes

Planted and cultivated for the tuber, the same as potatoes. Of great value for feeding stock. They are the best and cheapest hog feed known. They are remarkable for great productiveness, over 25 tons have been raised on 1 acre. Easier to grow than potatoes. They need not be dug. If hogs are turned in on them they can easily root the tubers out. One acre will keep from twenty to thirty hogs in fine condition for several months. Said to be a preventive of cholera and other hog diseases. Excellent for fattening if fed with a grain or mash ration. Plant 400 lbs. per acre early in the spring.

By freight or express, 10 lbs. 50c; 50 lbs. \$1.50; 100 lbs. \$2.50. Per lb., prepaid, 20c; 4 lbs. 60c: Write for quantity price.



Artichoke Tubers

BARLEY**Morse's True Beardless**

A new strain of true beardless; all bred from one plant and our grower says its **ALL BEARDLESS**. On this account will make excellent hay for horses or stock. Bred in the west and a wonderful yielder. Does well even on sandy soils. Went 42 sacks per acre last season under extremely dry conditions. Requires less seed per acre and has a good stiff straw which is not likely to lodge.

Prices: 10 lbs. \$1.50; 50 lbs. \$4.50; 100 lbs. \$8.00. By mail, postpaid, 1 lb. 35c; 4 for \$1.00. You better get a start of this.

BEARDLESS BARLEY.—Very hardy, can be sown very early or as late as July 1 on moist land. This, as its name implies, is almost entirely beardless. We offer the best local stock obtainable.

10 lbs. 70c; 100 lbs., write; per lb. postpaid 20c.

WHITE HULLESS or BALD BARLEY.—An excellent beardless barley for stock feeding. Grain plump, heavy, and when threshed is hullless like wheat; a heavy cropper. When grown and cut for hay it produces a crop, which is very rich and almost equal to a grain feed.

10 lbs. 85c; 100 lbs. write; per lb. postpaid 25c.

WISCONSIN PEDIGREE BARLEY.—This six rowed bearded barley is claimed to be superior to the well-known Oderbrucker Barley.

The heads are exceedingly long and are uniformly well filled; the straw is strong; the grain is large, plump and heavy; a heavy yielder.

Prices: 10 lbs. 75c; 100 lbs. write; per lb. postpaid 20c; 3 for 50c postpaid.

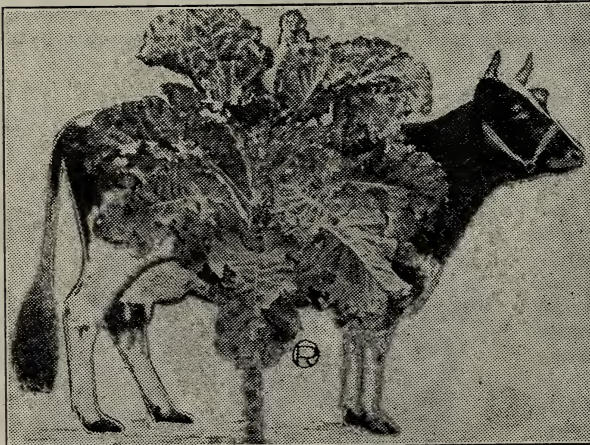
HANNCHEN BARLEY.—Earliest and best of the 2-rowed barleys. A sure and heavy cropper. Grain plump, thin hull and beards drop or break off readily. For spring planting but will do well seeded in fall where winters are mild.

Prices: 10 lbs. 65c; 100 lbs., write; per lb. 20c; 3 for 50c; postpaid.

COW PEAS

Are really small beans of vigorous vining habit and heavy foliage of great nutritious value. Make excellent green feed cut and fed or pastured.

10 lbs. \$1.40; 100 lbs., write; 1 lb. 25c; 3 lbs. 50c, postpaid.



Thousand-Headed Kale

This cut is from photo, and gives you a good idea of the size and plant when well grown.

BUCKWHEAT

SILVER HULL.—A very good and popular variety; grain is of a light gray color; has a thin husk; matures early, and yields heavily; a good milling variety.

10 lbs. \$1.25; 100 lbs. write; per lb. postpaid 25c.

JAPANESE.—Good yielder, ripens early; excellent for bees to work on as it remains in bloom longer.

10 lbs. \$1.25; 100 lbs. write; per lb. postpaid 25c.

CHEAT SEED

Cheat seed yields a good crop of hay, especially on low or moist soil, and will stand considerable overflow without harm. Sow in the fall or early spring, the same as oats and about 100 pounds per acre.

10 lbs. 60c; 100 lbs. \$3.75; per lb. postpaid 20c.

FIELD PEAS

Field Peas are a very profitable crop and are grown here very extensively. They can be grown alone or with oats. When planted with oats and cut green they make a large amount of very rich feed; also very valuable for enriching the soil if plowed under. The dry peas make excellent hog feed and are quite fattening. Sow, if alone, 2 bushels to an acre; if with oats, 80 lbs. peas and 2 bushels oats.

WHITE CANADIAN.—The leading and most popular kind; seed creamy white; a heavy cropper. Yields 30 to 50 bushels per acre.

10 lbs. \$1.00; 100 lbs., write; per lb. postpaid 20c.

BLUE PRUSSIAN.—Valuable variety, seed green. Used extensively as a dry soup pea. 10 lbs. \$2.00; per lb. postpaid 25c.

SWISS.—A flat or 3 cornered variety of excellent quality for soup. Insects do not trouble this variety.

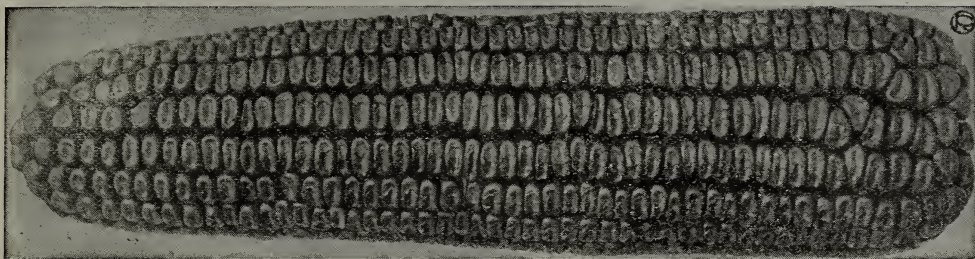
Per lb., postpaid, 35c. Seed scarce.

Thousand-Headed Kale**JERSEY KALE—COW KALE**

Recommended by agricultural colleges, granges and dairymen as one of the most valuable green forage plants for the Pacific Coast.

It grows rapidly and produces a mass of large, thick, curly green leaves, rich and succulent, which are eagerly eaten by stock and poultry. If planted early will produce valuable green feed during the dry summer months. Makes the most rapid growth if sown in the early spring, but locally it is extensively planted in summer and fall for winter feed. Will stand light freezing. Stalks can be cut off, or the larger lower leaves broken off, leaving the tops to grow. Under good cultivation plants will grow from 5 to 6 feet high. Sow 2 to 3 lbs. per acre, thinly in drills 2 to 4 feet apart and thin out. For late planting (July and August) it is better to have strong plants from earlier seeding and set out same as cabbage, 2 feet apart, in rows. Thin out later if plants attain extra large size.

Pkt. 5c; oz. 15c; 4 oz. 25c; lb. 75c postpaid.



Routledge Pride of the West

Field Corn for Oregon

If you want to raise some good Field Corn, plant our Western grown Seed Corn. The strains, we are offering you are acclimated and especially adapted to our short, cool summers. Eastern and Southern grown field corn seed is all right for green fodder, but of little value on this Coast, if you want to raise matured, dry ears.

Routledge Pride of the West

Oregon grown; acclimated. A grand success in Oregon. We have been raising this variety for years, and by selecting the earliest ripening and best select ears, now have a strain that is a revelation to many people who have thought Oregon and Washington could not raise profitable field corn.

Routledge Pride of the West Field Corn is an early maturing variety, producing stalks from 6 to 8 and often 10 feet high, and large ears, 8 and 9 inches long. Cobs covered with 14 to 16 rows of deep, yellow kernels. It is a heavy yielder. Our strain has been greatly improved in the last few years. Plant some of this corn this season; you will be pleased with results, we are sure.

We claim this is the earliest and heaviest yielding strain of Yellow Dent corn grown in Oregon. Try it and be convinced.

Large pkt. 10c; lb. 25c, postpaid. Not postpaid, 10 lbs. \$1.50; 100 lbs., write.

Hillsboro, Ore., June 16, 1920.

Gentlemen: The 200 lbs. of Pride of the West Seed Corn that I got from you is coming fine. It looks like every seed will germinate.

Yours truly,
MR. FRED T. LISCO.

Longfellow Extra Early

Unsurpassed for Early Mature Ears and Production

This valuable corn is a flint variety. The seed is a deep rich golden yellow, glossy and hard.

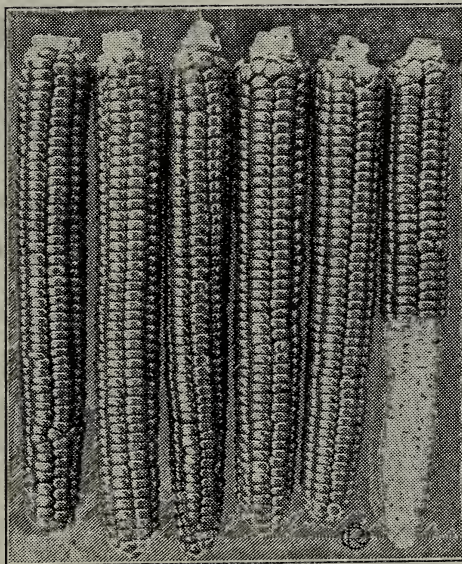
We believe this is hardier, earlier, and will grow under more adverse conditions than most any other kind. We recommend Longfellow to all growers who have not had success with the Yellow Dent varieties and for sections with a short season and cool nights.

LONGFELLOW FLINT.—The ears are 8 rowed, from 10 to 15 inches long and 1½ to 1¾ inches in diameter. The cob is very small, kernels large, broad, glossy, deep yellow and very rich in food value. Stalks 5 to 7 feet high. Fifty lbs. of corn on the ears will shell 40 lbs. of corn, leaving only 10 lbs. of cob, showing that the grain yield is equal, if not greater than the large eared kinds. Northern grown seed.

Per large pkt. 10c; lb. 25c, postpaid. Not prepaid, 5 lbs. 75c; 10 lbs. \$1.40; 100 lbs., write for prices.

Routledge Seed & Floral Co.,
Gentlemen: Your Pride of the West field corn is the best I ever raised. Planted it in July and it was ready for the silo October 1 without a drop of rain. Planted earlier it certainly would mature a big crop of dry ears for winter feed.

Yours truly,
A. J. KRUEGER.



Longfellow Extra Early Flint

Minnesota No. 13

Well and favorably known in many sections of the West. Produces splendid large ears with deep kernels of bright yellow. A strong and vigorous grower with heavy foliage. Very popular variety for ensilage.

Northern Grown.—Large pkt. 10c; lb. 25c, postpaid. Not prepaid, 10 lbs. \$1.40; 100 lbs., write for prices.

Evergreen Fodder

This is the best of all the sweet corns to grow for green fodder for stock; much richer than field corn, large cropper but ears will not mature. Stalks sweet and rich.

Lb. 30c, postpaid; 10 lbs. \$2.00.



Shadeland Climax

Shadeland Eclipse

Shadeland Senator

CERTIFIED "Shadeland" SEED OATS

BUY THE GENUINE SHADELAND CERTIFIED SEED OATS.—Many dealers and some seed stores are trading on the reputation of the famous Shadeland oats, claiming their stock is just as good, etc., and cheaper. If so, why didn't they win the "first prizes" at our state and county fairs last fall? Why didn't their stock pass "inspection" by the O. A. C. specialist?

REMEMBER, we have the exclusive sale of the originator's 1920 crop of certified seed. ORDER FROM US AND BE SURE. "Shadeland" is a "registered" word and cannot lawfully be used on any stock but that grown by the owner.

Certified Shadeland Climax

This grand oat belongs to the tree or branching class, and is a vigorous, healthy grower of strong stooling qualities. This is one of the heaviest yielding oats introduced to date. It does not produce much straw, but the yield of "thin hulled" plump heavy grain is amazing. For early spring planting, large yield and quick maturity, Climax is a winner. Can safely be planted in the fall where the winters are mild.

Prices: Per bu. \$2.00; 100 lbs. \$5.00. By mail postpaid, 4 lbs. 50c.

Certified Shadeland Senator

A valuable new oat, extremely early and a great producer. Will mature in 90 days, therefore, can be planted quite late. Especially adapted for rich, moist, late ground or overflow bottom lands. Senator is a quick, strong growing variety, has stiff straw, stands up well and produces handsome, large, full heads of extra large, plump grain.

Prices: Per bu. \$2.00; 100 lbs. \$5.00. By mail postpaid, 4 lbs. 50c.

PRIZE OATS.—For 20 years Shadeland Oats have never failed to win first prizes at Oregon State and our County Fairs and Land Products Shows. Increase your crop 25 to 50 per cent by planting pedigreed prize oats.

OATS AND PRIZES.—We have on display at our store Shadeland Oats in the straw and the Blue Ribbon Prizes for your inspection.

Certified Shadeland Eclipse

"Eclipse is the best side oat grown. Eclipse is enormously productive, early, very vigorous, and produces massive heads filled with large, plump grains of finest milling quality. Shadeland Eclipse has won three times, "First Special Prize," for the best milling Oat.

Prices: Per bu. \$2.00; 100 lbs. \$5.00. By mail postpaid, 4 lbs. 50c.

Shadeland Hulless

Shadeland Hulless is the heaviest yielding of all hulless Oats—300 lbs. produced nearly three tons—one pound in a garden row 100 yards long, produced 100 lbs. This Oat grows and is harvested like any other oat, but it comes from the cleaner minus the hulls and is ready to grind, roll or chop, or can be cooked whole—the quality is unsurpassed. By growing Shadeland Hulless you can produce "Table Oats" at a cost of 2 cents per lb., thereby reducing the "high cost of living;" sow 40 to 50 lbs. per acre.

Prices: 10 lbs. \$1.25; 100 lbs. \$10.00. By mail postpaid, 1 lb. 25c; 3 lbs. 65c.

No. 1 White Seed Oats—Grey Winter Oats

Aside from the Shadeland Seed Stock we can supply other choice seed oats at about market price—order what you want at \$4.00 per 100 lbs. and you will get "full value," or write first, for quotations, stating amount wanted.

Kaffir Corn

An excellent fodder plant. Seed small and almost round, valuable poultry and pigeon food. It does best sown thinly in drills three feet apart. 10 lbs. \$1.25; per lb. postpaid 25c

Lentils

Succeed best in dry, sandy soil. A leguminous annual, the seeds of which are valuable for pigeons and are used largely for soups. The leafy stalks make good forage. Per lb. postpaid 40c; 3 lbs. \$1.00

Millets

Sow in April, May or June, 20 pounds for seed or 35 pounds for hay per acre. Must be sown early to mature in Willamette Valley.

EARLY FORTUNE. — This variety seems to do extra well here; try it. Heads large and loose, and seed is amber red and three times as large as the Common Golden. Makes good poultry feed. 10 lbs. \$1.00; 100 lbs., write; per lb. postpaid 20c

LIBERTY (formerly called German).— An improved variety, yielding a larger crop of seed than the Common Millet; it is also taller than the Common Golden, and yields a heavier crop of hay. 10 lbs. \$1.00; 100 lbs., write; per lb. postpaid 20c

HUNGARIAN.—A dwarf millet; superior for hay. 10 lbs. \$1.25 100 lbs., write; per lb. postpaid 25c



Millet

Profitable Potatoes for Seed—See Pages 28-29

Rape, Dwarf Essex

We offer you true, pure seed. One of the best forage plants, on account of the large amount of green feed it will produce at a season of the year when everything else is dried up. It has yielded ten tons of green forage per acre, and has twice the feeding value of green clover. Sheep, swine, cattle and poultry eat it readily. Rape will do well on almost any soil. Prepare the ground as for turnips, and sow any time from May till September; or plant it with grain. Sow, per acre, three pounds, in drills; or if broadcast, five pounds. 10 lbs. \$1.50; 100 lbs., write; per lb., postpaid, 30c

Seed Rye

When ready to buy Fall or Spring Rye Seed, write us for quotations on quantity wanted or send in your order and we will give full value. 10 lbs. 75c; 100 lbs., write; lb., postpaid, 20c; 3 lbs. 50c

Speltz—Emmer

Sow in the spring, the same as wheat, at the rate of two bushels per acre. Cut when the grain is past the middle stage of milk, when it will make splendid grain and lots of rich straw hay. Thresh like wheat, only not so closely. Can be fed whole, rolled like barley, or ground. 10 lbs. \$1.00; 100 lbs., write; lb., postpaid, 20c; 3 lbs. 50c

Sugar Cane or Sorghum

A valuable crop to grow for fodder or ensilage, as it furnishes an immense tonnage to the acre. 10 lbs. \$1.50; 100 lbs., write; per lb., postpaid, 30c

Vetches

OREGON VETCH (*Vicia Sativa*).—Oregon's greatest forage plant. Often called Fall Vetch. Grown very extensively in Western Oregon and Washington, especially in the Willamette Valley and on the Oregon coast. It furnishes an abundance of excellent feed, either green or dried. The seed is generally mixed with wheat, oats or rye having a stiff straw to hold it up. Sown alone 85 pounds or 60 pounds with a bushel of grain per acre. Sow in the fall or early spring. Prices: 10 lbs. \$1.25; 100 lbs. \$8.00; per lb. 25c; 3 lbs. 60c postpaid.

HAIRY SAND OR WINTER (*Vicia Villose*).—This variety thrives on poor arid, sandy soils. It is sown in the fall or spring, mixed with rye, which serves to support the plants. Sow 20 pounds per acre. 10 lbs. \$3.00; per lb., postpaid, 40c



Vetches

THE WISE ONES

Will use Mulford's Vetch Culture to inoculate their seed before sowing. There is no question about its VALUE. "Evidence," a new booklet, will prove it. (See page 41.)

SEED WHEAT

Prices subject to market changes. Will send full value of money sent. Quote prices on request for prompt acceptance.

Marquis

Few commercial varieties of spring wheat can compete with Marquis for yield and profit. It is an excellent milling variety, producing the highest grades of flour. Beardless, matures early, yields heavily. It does not shatter easily and stands well. It has a short, plump, very hard kernel.

Price: 100 lbs., write; per lb. 20c; 3 for 50c; postpaid.

FORTY FOLD—WINTER.—Forty Fold is referred to as "Gold Coin" in some sections. Is quite early, seed resembling Blue Stem. A favorable winter variety in many localities, and in good demand for milling.

Prices: Per lb. 20c; 3 lbs. 50c, postpaid. Write for quantity price

Bluestem Wheat

Unexcelled for the Northwest. East of the mountains it is extensively grown as a spring wheat in the drier sections, but on the Coast where the winters are mild it is sometimes seeded in the fall. Its popularity is due to its drought resistance, heavy yielding capacity, non-shattering character and high milling value.

Prices: 100 lbs., write; per lb. 20c; 3 lbs. 50c; postpaid.

ALFALFA AND CLOVER SEEDS

Single pound prices on Grass Seed are prepaid. Ten, fifty and one hundred pound prices are NOT prepaid and subject to change. See notes, page 42. For amount of seed to sow per acre see table inside back cover.

ALFALFA, OR LUCERNE CLOVER

Reports prove that Alfalfa will grow in all parts of the West, but requires a deep, loose soil. Will not thrive on heavy clay or where there is hard pan. As soon as cut it immediately commences to grow. Excellent hay or pasture. Alfalfa, once established, is a crop so profitable that every farmer may well take great care to get a stand. Much has been published about its high feeding, fertilizing and wonderful yield possibilities.

Price: 10 lbs. \$3.00; 50 to 100 lbs. @ 27c; per lb. postpaid 40c.

DRY LAND ALFALFA

For high, dry, hot land, where irrigation is impossible.

Price: 10 lbs. \$3.00; 50 to 100 lbs. @ 28c; per lb. postpaid 40c.

GRIMM ALFALFA

This new variety is very hardy and will stand much more tramping and root injury. In many Western sections it is out yielding the common variety and proving much more profitable. It is a little earlier and will do well on most all soils except undrained meadows. Not affected by extreme heat or cold and does better in a wet climate than any other alfalfa. We offer the genuine true Grimm seed.

Prices: \$1.00 per lb. postpaid; 10 to 20 lbs. @ 85c lb.; 100-lb. prices on request.

WHITE CLOVER (Trifolium Repens)

Used largely in lawns and permanent pasture mixtures. Accommodates itself to a great variety of soils. High grade clean seed is very scarce and high this year; beware of low-priced seed this season.

Choice Seed, 10 lbs. \$7.25; per lb. postpaid 85c.

For Lawns always buy our Extra Fancy Seed, which is the purest high quality seed obtainable, and the true very dwarf, hardy variety.

Extra Fancy Seed.—Per lb. postpaid 90c.

RED CLOVER (Trifolium Pratense)

Hardy, and succeeds well on any good soil. The most popular variety.

10 lbs. \$3.25; 50 to 100 lbs. @ 29c; per lb. postpaid 45c.

ALSIKE CLOVER (Trifolium Hybridum)

Valued highly for sowing with other grasses. Excellent for hay and pasture; valuable for bees; resists both drought and excessive moisture.

10 lbs. \$3.50; 50 to 100 lbs. @ 30c; per lb. postpaid 45c.

SWEET CLOVER (Melilotus Alba)

Sweet clover has come to stay. There is no doubt about it. Ask any farm paper, any state college, the U. S. Department, or better yet, any farmer who has grown it.

Sweet clover is used as either a feed crop or as a fertilizer to plow under to improve the soil and increase the crop to follow. It grows fast and is easy to start.

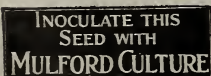
Grows luxuriantly on good soils but it will also grow and thrive on thin, sandy soil, hardpan, gumbo, rocky upland, clay and alkali land.

Sweet clover lives two years. It makes large, rapid growth the first season and can be cut for hay or pastured the last half of the summer, but does not bloom or bear seed. The second year it blooms, bears seeds and dies. Will make two crops of hay or a crop of hay and one of seed the second year. Can be plowed under either the first or second year, but to get the full value in humus the second season is better on account of the large roots that penetrates the lower layers of soil, thereby loosening it up and adding much humus and more nitrogen.

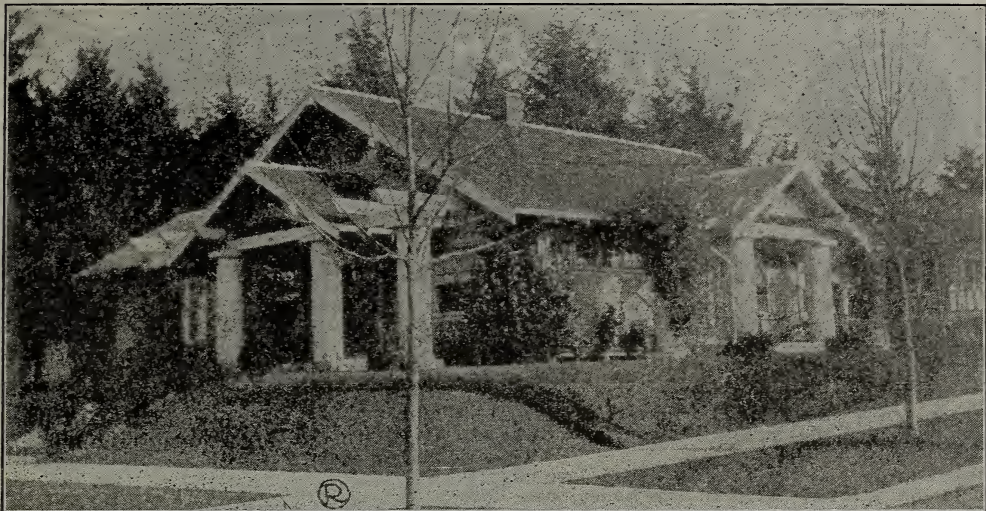
Sown very early in the spring. It does well sown either alone or with a nurse crop of small grain. Use 15 to 20 pounds of seed per acre.

Sweet clover makes excellent pasture for horses, cattle, sheep, hogs or chickens. A very early and continuous cropper.

Price: Per lb. 40c postpaid; 10 lbs. \$3.00; trial pkg. 10c. Write for quantity price.



The MULFORD CULTURES contain nitrogen-fixing bacteria, which form nodules on the roots of field and garden legumes that act by collecting nitrogen from the air and converting it into nitrates—food for soil and plants. Get wise by reading page 41.



One of our Portland Bungalows with a beautiful lawn, shrubs and vines

Nothing adds a greater air of refinement to a home than a beautiful, well-kept lawn. The time, labor and money spent is a good investment, to say nothing of the pleasure it gives the owner, as well as those who pass by. The planting of a few shrubs, vines and roses should not be forgotten. The pretty home above is "well done," attractive and inviting, and the owner has just cause to be proud of it.

LAWN GRASS SEED

Though we offer, separately, seed of many of the grasses suitable for the lawn, we consider as very erroneous the somewhat prevalent idea that any single variety of grass seed is preferable or equal to a mixture.

R. R.'s EVERGREEN LAWN GRASS

To obtain a good Lawn Grass Mixture, it is necessary that the best possible seed of fine grasses be used in the combination, embracing such varieties as are of neat, close growth, extreme hardiness, and adapted to produce a quick, permanent sod. Judicious selection of seed, knowledge of the habits, vigor, quality and hardiness of varieties used in the mixture can only be gained by thorough and practical tests under different climatic and soil conditions. After many years' experience, we offer our pure, clean Evergreen Lawn Grass Seed Mixture, composed of a thoroughly balanced combination of various native and foreign fine-leaved, deep-rooting grasses of interweaving habit, that will flourish under varied soil and climatic conditions, and which may be depended upon to produce a beautiful, compact, evergreen sod that will resist tramping and hard usage, and at the same time present that handsome, velvety appearance so much desired.

PRICE, 50c per lb. postpaid; 10 lbs. or more, NOT PRÉPAID, at 45c per lb.

Note.—You better spend a few cents or a dollar extra on the seed you buy and have a fine lawn that you'll be proud of. Sow 1 pound seed to 15 feet square for best results.

WHITE CLOVER.—Many gardeners like white clover mixed in lawn seeds and it is excellent, especially if your soil is heavy or poor. White clover grows quickly and acts as a nurse crop and protects the fine leaved grasses. Evergreen Lawn Grass with one-fourth white clover is 60c per pound, postapid.

Seeds for Lawns and Special Mixtures

SEED.—There is as much difference between clean, high-grade grass and clover seeds for lawn making and the common or ordinary grass seeds as there is between high-grade white flour and bran. You would not think of trying to make light, white bread of bran, neither should you expect to make a fine, green, velvety lawn from low grade, light weight, immature and foul grass seeds. Weight, purity and germination is what sets the price of grass and clover seeds. We buy and use the highest grade, pure tested seeds for our Evergreen Lawn Grass Mixture. Of course, they cost more, but we know from experience that they give best results and are the only kind of seeds that it pays to use if you want a beautiful lawn. Do not buy low priced Lawn Grass Mixtures and expect good results. NO ONE gives you anything better than you pay for.

SPECIAL MIXTURES.—For all round general conditions, our Evergreen Mixture is unexcelled, but we will prepare special mixtures for shady places, low, wet soils, very dry soils and terraces. Just mention it when ordering.

FEED THE LAWN

Do not starve the grass if you want it to look green and velvety; use "Wonder" and "C-M," as per directions. See pages 38 and 39. We sell Garden Tools—all kinds.



Our flower seeds are grown by specialists and are unsurpassed. The following list contains a general assortment of the choicest and most popular and easiest grown flowers for conservatory, greenhouse or garden culture.

HOW TO RAISE FLOWERS SUCCESSFULLY FROM SEEDS

The above is the title of a two-page leaflet we have issued for our customers. It tells **HOW, WHEN and WHERE** to plant. It is free to all. You will find it of great value.

IF YOU WILL MEMORIZE the following definition of the flower classes THEY WILL HELP YOU WONDERFULLY in the selection of seeds and your garden work in general.

ANNUALS

These grow from seed, flower, mature their seed, and die in one year, or in other words, the same season.

Half-Hardy Annuals are those which should be started early in the house, conservatory or hotbed, and transplanted to the garden in settled warm weather.

Hardy Annuals are those which can be sown in the open ground in early spring or started inside and transplanted if very early flowers are desired.

BIENNIALS

These grow from seed, sown from June to August, flower, ripen their seed and die the next year, though some varieties bloom the same season if sown early in gentle heat.

Hardy Biennials will winter in the open ground without protection.

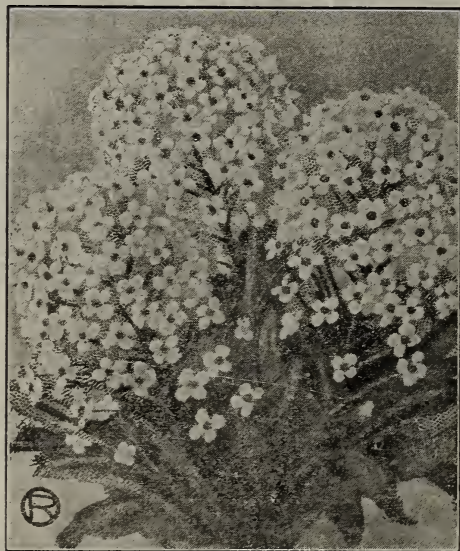
Half-Hardy Biennials require the protection of a cold-frame or cool-house during the winter.

PERENNIALS

These grow from seed, and continue flowering annually for many years after the first season. Some varieties flower the first season if started very early. Sow in the fall for flowers next year.

Hardy Perennials can remain in the open ground during winter without protection.

Half-Hardy Perennials require the protection of a cold-frame or cool-housing during winter.



Sweet Alyssum

AGERATUM

Half-hardy annuals, especially well adapted to edge large beds of geraniums, salvia coleus or cannas, flower continuous through the summer. 15 inches.

DWARF LITTLE BLUE STAR.—New; one of the handsomest blue-flowered dwarf edging plants; grows 5 inches high, and is just covered with small, bright blue flowers. Pkt. 15c; 1/8-oz. \$1.00

AGERATUM MEXICANUM.—

Dwarf, blue. Pkt. 10c; 1/4-oz. 25c

Album.—Pure white, dwarf.

Pkt. 10c; 1/4-oz. 30c

Finest Mixed.—All colors.

Pkt. 5c; 1/4-oz. 20c

ACROCLINIUM

Hardy annual, with everlasting flowers; good for cutting; flowers double and dry nicely if cut in bud; 1 foot; July to October.

Album.—Double white. Pkt. 5c; 1/8-oz. 25c

Mixed.—Double, all colors. Pkt. 5c; 1/8-oz. 25c

AGROSTEMMA

(Rose of Heaven)

COELI-ROSA.—Superb free-flowering, hardy annual, rose-colored flowers; fine for cutting; height 1 1/2 feet; July to September.

Pkt. 5c; 1/4-oz. 20c

ALOYSIA

(Lemon Verbena)

CITRIODORA.—A greenhouse shrub, valuable for the fragrance of the foliage; 2 feet.

Pkt. 15c

ALYSSUM

One of the most popular hardy annuals, used especially for edging and also valuable for cutting on account of the fragrance of flowers.

SWEET.—Pure white; 6 inches; June to November. Pkt. 5c; oz. 50c

LITTLE GEM.—The dwarfest and best for design bedding; plants very compact and bushy, and grow only 3 inches high.

Pkt. 10c; 1/4-oz. 25c

LILAC QUEEN.—Dwarf, compact, lilac flowers. Pkt. 10c; 1/4-oz. 35c

SAXATILE COMPACTUM (GOLD DUST.)—Hardy perennial; yellow flowers; April to June; height 9 to 12 inches.

Pkt. 10c; 1/4-oz. 50c

Have you a beautiful lawn? If not, see pg. 49 for Seed, pgs. 38 and 39 for Fertilizer



Improved Giant Crego Aster

White Fleece

One of the largest and most perfect of the early flowering (Comet type), bearing flowers 5 inches and over across, formed into a plumy globe of glistening white; blooms at the same time as Lavender Gem, making a splendid companion. Pkt. 10c; 1/2-oz. 40c

Mikado

Very similar to the Crego's Giant, but more dwarf in growth and comes into bloom fully two weeks earlier. The plants attain a height of about 18 inches, of branching habit, and the flowers, borne on long, strong stems, are of colossal size, five and six inches across. We offer two colors, viz.:

MIKADO PINK (or Rochester.) A charming shade of pink suffused with lavender. Pkt. 10c; 1/2-oz. 30c

MIKADO WHITE.—Of purest glistening white; a magnificent and artistic flower. Pkt. 10c; 1/2-oz. 30c

New Giant Comet

Considered by many to be the most beautiful of all the Asters (see cut.) It is an ideal cutting variety, as each plant bears freely exquisitely formed large flowers on long stiff stems.

Pure White, Pink, Crimson, Lavender or
Finest Mixed. Pkt. 15c; 1/2-oz. 30c

Lavender Gem

One of the best; comet type; very early and a charming shade of lavender; excellent in every way. Pkt. 15c; 1/2-oz. 40c

New Crimson Giant

A late-branching variety of upright growth with extra large, densely double flowers of rich blood-crimson; makes a brilliant bed or border and is splendid for cutting. The form of the flower is nicely shown in plate above. Pkt. 15c; 1/2-oz. 40c

Asters, Fine Mixed

A mixture of choice kinds for all season blooms. Pkt. 10c; 1/4-oz. 50c

ASTERS

One of the easiest and most satisfactory summer and fall flowers to grow. We take the utmost pains to select seeds from the most perfect flowers only, and wish to assure our patrons that our strains are the superiority of perfection.

Improved Giant Crego

The most beautiful and desirable aster we have ever seen; very hardy, free-flowering and one of the best for general planting; the plant is a strong, healthy grower, and will produce 12 to 15 long-stemmed flowers of the most graceful and pleasing style (see cut.) With ordinary care you can grow flowers measuring 5 to 6 inches across. Most of the handsome large aster blooms you see in the Portland flower stores are of this kind.

Pure White, Shell Pink, Rose Pink, Purple, Lavender or Mixed. Pkt. 15c; 1/2-oz. 40c

SPECIAL.—One packet each of the five colors only 60c.

Suntex, Ore., Jan. 7, 1920.

Routledge Seed & Floral Co.

Dear Sirs: Have always found your seeds best of any and have tried several seed companies.

Yours truly,

D. R. THORNE.

See Plant Dept., pages 76 to 94.

Queen of the Market

Most valuable for early cutting; the plants branch freely and produce a great many well-formed flowers nearly a month in advance of the later sorts.

White, Pink, Lavender, Crimson or
Finest Mixed. Pkt. 10c; 1/2-oz. 30c.



Superb Late Branching

Superb Late Branching

The most popular late-flowering aster. Flowers are very full, large in size, 3 to 4 inches across and borne on long stiff stems 2 to 2 1/2 feet high. A very desirable, beautiful and satisfactory variety.

Deep Rose, Dark Blue, Light Blue, Shell Pink, White or Finest Mixed.

Pkt. 10c; 1/4-oz. 50c

AMARANTHUS

CAUDATUS (Love-Lies-Bleeding).—Hardy annual; ornamental foliage plant; fine for bedding; green foliage with long, drooping crimson racemes; 2 feet.

Pkt. 10c; ¼-oz. 25c

CRUENTUS (Prince's Feather).—Dark red foliage and feathery flowers; 2 feet.

Pkt. 10c; ¼-oz. 25c

TRICOLOR (Joseph's Coat).—Ornamental; for foliage only; red, yellow and green.

Pkt. 10c

ANTIRRHINUM

(Snapdragon)

Half-hardy perennial and annual; blooms in July if sown early in the house; one of our finest cut flowers; 2 to 3 feet.

Queen Victoria.—New, tall; very large; pure white; superb.

Pkt. 10c.

Daphne.—Soft blush pink.

Pkt. 15c

Golden Queen.—Rich, pure yellow.

Pkt. 10c

Defiance.—Brilliant scarlet.

Pkt. 10c

Tall Giant, Finest Mixed.—Our seed of this is exceptionally fine; height, 3 feet.

Pkt. 10c; ½-oz. 25c

Semi-Dwarf.—Fine for bedding; 18 inches. Finest Mixed.

Pkt. 10c; ½-oz. 25c

AQUILEGIA

(Columbine)

Hardy perennials; are most elegant plants and invaluable for cutting or as hardy border flowers; beautiful and graceful; June to September. 2 to 3 feet.

LONG SPURRED.—Superb mixture of all the most desirable shades.

Pkt. 15c; ½-oz. 75c

Single, Finest Mixed.

Pkt. 10c; ¼-oz. 35c

Double, Finest Mixed.

Pkt. 10c; ¼-oz. 35c

ARABIS

(Rock Cress)

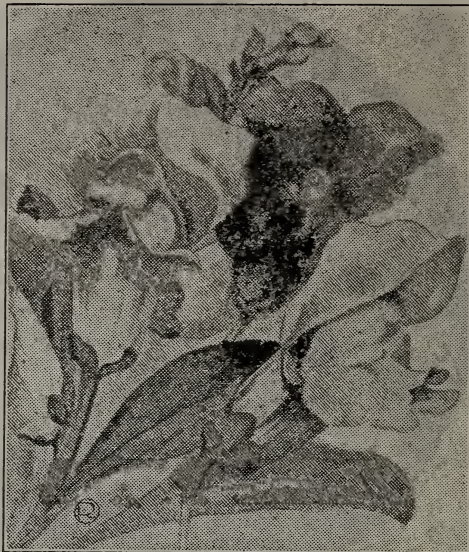
ALPINA.—Hardy perennial; pure white flowers in close head; excellent for edging, rockwork or dry situations; 6 inches; April to June.

Pkt. 10c; ¼-oz. 50c

FOR PERENNIAL PLANTS SEE PAGES 82 to 86.



Aquilegia (Columbine)



Antirrhinum

ASPARAGUS

PLUMOSUS NANUS.—A graceful pot plant for either house or conservatory (see illustration under Fern Plants); very finely cut, delicate lace-like foliage.

Pkt. 25c; 100 seeds \$1.00

SPRENGERI.—Dropping foliage; adapted for hanging baskets or cutting.

Pkt. 10c; 100 seeds 50c

BABY BREATH

See Gypsophila, page 59.

BALSAM

(Lady Slipper)

Hardy annual, succeeding best in sunny situations, rich loam and moisture; very showy and of easy culture; 1½ feet; July to September.

PRIZE MIXTURE.—This strain will produce the most perfectly formed double flowers in the greatest variety of colors.

Pkt. 10c; ¼-oz. 50c

IMPROVED CAMELIA-FLOWERED FINEST MIXED.—Large, extra double flowers.

Pkt. 10c. ¼-oz. 35c

BELLIS

(Double English Daisy)

Popular spring and summer flowering perennial; fine for borders; height 4 inches. Easily raised from seed sown from early spring to September; April to September.

Double Mixed.

Pkt. 10c; ½-oz. 25c

Longfellow.—Double pink flowers.

Pkt. 15c

Snowball.—Free flowering; pure white.

Pkt. 15c

Giant Red or Giant White.—Mammoth in size; very rare. Give them rich ground.

Pkt. 15c

BEAN

SCARLET RUNNER.—The well-known, rapid growing annual climber, with bright red flowers, from July to September; height 8 feet.

Large Pkt. 10c; oz. 20c

See Plant Dept., pages 76 to 79

St. Maries, Ida., May 22, 1920.

Routledge Seed & Floral Co.

Dear Sirs: I received my St. Andreasberg Female in fine condition, and cage also. Like them just fine.

Yours very truly,

MRS. A. E. ALLBERY.



Balloon Vine

BALLOON VINE

(Love-in-a-Puff)

A rapidly growing annual climber; succeeds best in light soil and warm situation; flowers white; seed vessels look like miniature balloons and of great interest to children; 8 to 10 feet (see cut).

Pkt. 10c; 1/2-oz. 50c

BROWALLIA

(Amethyst)

A very profuse blooming, half-hardy annual bedding plant, bearing during summer and autumn handsome winged flowers of different shades of blue; 1 1/2 feet.

Finest Mixed. Pkt. 10c; 1/4-oz. 50c

CALCEOLARIA

An ornamental plant, and a universal favorite; produces a mass of beautiful puffed, pocket-like flowers of brilliant self-colors and spotted. Our strains of Calceolaria are very fine.

HYBRIDA GRANDIFLORA.—Flowers of immense size; seeds saved from finest specimens. Pkt. 35c

CALENDULA

(Pot Marigold)

Hardy annual; one of the most universal garden flowers. The flowers appear in solitary heads on stout stalks; large, with flat, spreading rays; very showy; flowers the entire season; 1 foot.

Lemon King—Large, double; lemon-yellow. Pkt. 10c; 1/4-oz. 25c

Prince of Orange—A full, deep orange, double. Pkt. 10c; 1/4-oz. 25c

Double Finest Mixed. Pkt: 5c; 1/4-oz. 20c

CALLIOPSIS

Showy and beautiful free-flowering annuals, of the easiest culture, doing well in any sunny position, blooming all summer and excellent for cutting and massing (see cut). Don't confuse this with the perennial Cereopsis, page 54.

Finest Mixed.—Annual; all shades of yellow, red and brown. Pkt. 10c; 1/4-oz. 40c

HYBRIDA SUPERBA.—Showy new shades in all of the choicest varieties. Pkt. 10c; 1/4-oz. 75c

A Beautiful Flower Garden

Perhaps you have failed before, but if you will follow our "Cultural Directions" (free on request), you will be successful.



Calliopsis

CANNA

A beautiful, large-leaved, showy flowering plant. Seed must be soaked before planting and started in a hot bed under glass. (For Canna Roots, see page 88.)

CROZY'S HYBRIDS MIXED.

Pkt. 10c; oz. 50c

CANARY BIRD VINE

A rapid-growing summer-climbing annual, 10 to 15 feet high; it will cover trellis work in the most graceful manner, producing hundreds of pretty winged, bright yellow flowers.

Pkt. 10c; 1/4-oz. 35c



Canary Bird Vine

Perennial Flowers are rapidly gaining in favor. MORE should be planted; they are beautiful in borders, beds or among shrubbery, and flower each year. You gain 1 year by buying our field grown plants. See pages 82 to 86.

CANTERBURY BELLS

(Campanula Medium)

Very ornamental garden plants of easiest culture; excellent for cutting; hardy biennial; 2½ feet high, producing large, bell-shaped flowers of exquisite colors. Hardy biennials. (See plants, page 82.)

Single White, Blue, Rose or Mixed. Pkt. 10c; ½-oz. 20c
 Double Mixed, all colors. Pkt. 10c; ⅓-oz. 50c
R. R.'s PRIZE MIXTURE.—A mixture which contains every color and kind of both single and double biennial and perennials. Pkt. 10c; ⅓-oz. 25c

CALYCANTHEMA—(Cup and Saucer Canterbury Bells).—This is unquestionably one of the finest types; they have an extra large calyx, which is of the same color as the flower, giving the appearance of a cup and saucer.

Pink, Lilac, Rose or White. Pkt. 15c; 2 for 25c; ½-oz. 50c
 Mixed Colors. Pkt. 10c; ⅓-oz. 35c

CAMPANULA

(Bellflower)

Well known, beautiful, hardy herbaceous perennials, bearing a great profusion of attractive bellflowers; thrives best in light, rich soil; some of the varieties flower the first season if sown early.

PERSICIFOLIA GRANDIFLORA (Peach Bells).—Undoubtedly one of the finest of the hardy Bellflowers; grows 2 to 3 feet high, with large single flowers.

Blue, White or Mixed. Pkt. 10c; ⅓-oz. 50c

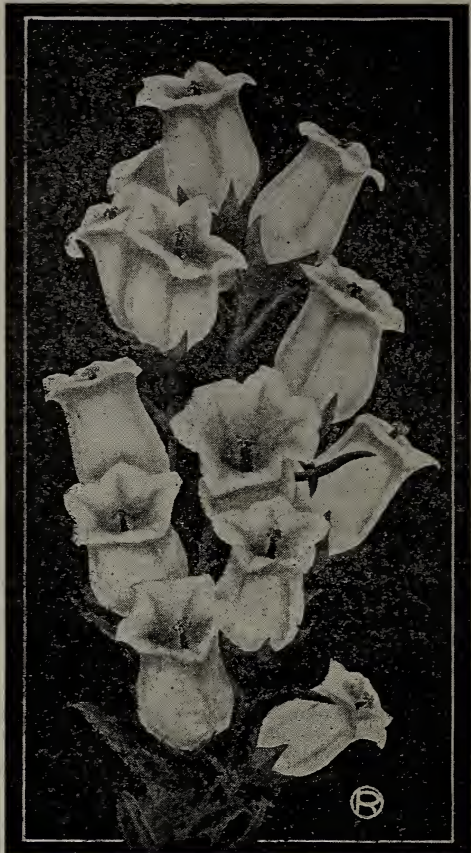
CARPATICA (Carpathian Hare-Bell).—Free-flowering, hardy perennial, continuing in bloom the whole season; color clear blue or white; grows 6 inches high; especially good for edging.

Blue or White. Pkt. 10c; ¼-oz. 50c

CANDYTUFT — IBERIS

Very popular free flowering annual, fine for beds or cutting; 1 foot. June to frost if sown early and late.

EMPRESS.—A large-flowered variety of purest white; grown extensively for cut flowers; very desirable. Pkt. 5c; ¼-oz. 35c



Single Canterbury Bells

DWARF WHITE LITTLE PRINCE.—Grows but 6 inches high and throws up strong trusses of pure white flowers; excellent for edging or bordering. Pkt. 10c; ¼-oz. 50c

PINK BEAUTY.—Fine, true pink, an exquisite flower. Pkt. 10c; ¼-oz. 25c

CRIMSON OR LILAC.—Very desirable colors; your choice. Pkt. 10c; ¼-oz. 25c

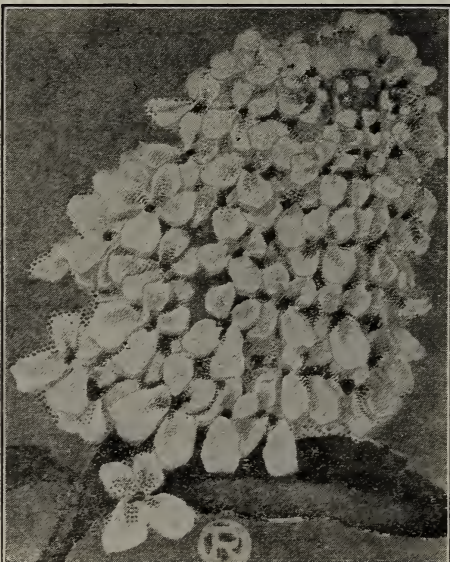
FINEST MIXED.—All colors. Pkt. 5c; ¼-oz. 35c

SEMPERVIRENS.—Perennial; pure white flowers, evergreen foliage; blooms in June; fine for edging, borders and rockeries; 1 foot. Pkt. 15c; 1-16-oz. 50c

CARDINAL CLIMBER

This glorious and absolutely distinct new annual climber is undoubtedly the greatest acquisition to the flower world in years, and the most beautiful and brilliant climber ever grown. It is a strong and rapid grower, attaining a height of 25 feet with beautiful fern-like lacinated foliage and literally covered with a blaze of fiery cardinal red flowers from mid-summer to frost. The flowers are about 1 inch in diameter and are borne in clusters of 5 to 7 blooms each. Like all "Ipomoeas," it delights in a warm, sunny situation and good, rich soil. The seed should be soaked in water a few hours before sowing and not planted outside until about May 1.

Pkt. (15 seeds). 15c; 2 pkts. 25c



Candy Tuft

GREAT FOR FLOWER BEDS.—Read page 39, which tells all about our new product—"C-M"—Kiln-dried Pulverized Cow Manure.



Centaurea Cyanus
Bachelor's Button

CARNATION

Everyone loves Carnations. For started plants of the finest named varieties, see page 77.

MARGARET CARNATIONS.—The earliest to bloom, and producing large, double sweet-scented flowers; being half-hardy perennials, if they are slightly protected during the winter they will survive and flower profusely the next spring.

Red, White or Yellow.—Large flowers.

Pkt. 15c; 1/2-oz. 50c

Choice Mixed.

Pkt. 10c; 1/3-oz. 35c

CASTOR OIL BEAN.—See *Reclinus*, page 67.

CELOSIA CRISTATA

(Cockscomb)

Showy annuals of easy cultivation; 1 foot; producing large, brilliant, comb-like flower heads.

GLASGOW PRIZE.—Showy, dark crimson comb. Pkt. 10c; 1/3-oz. 50c

Finest Mixed.—Rich mixture of finest dwarf kinds. Pkt. 10c; 1/3-oz. 40c

CELOSIA PLUMOSA

(Feathered Cockscomb)

The plant grows 2 to 3 feet, is of handsome pyramidal form, and the numerous massive plumes, which resemble an ostrich feather waving gracefully above the foliage, make it one of the most effective; of easy culture.

THOMPSONI MAGNIFICA.—The most perfect. In constant bloom from July to November.

Finest Mixture. Pkt. 10c; 1/4-oz. 50c

Golden Plume. Pkt. 10c

Crimson Plume. Pkt. 10c

CENTAUREA

(Dusty Miller)

These are grown for foliage only; half hardy annuals; leaves are silver-coated.

CANDIDISSIMA.—Thick, white, upright cut leaves; 1 foot. Pkt. 10c

GYMNOCARPA.—Fine, fern-like leaves, very graceful and showy; 1 1/2 foot.

Pkt. 10c; 1/3-oz. 25c

CENTAUREA CYANUS

(Bachelor's Button—Cornflower)

Very popular annuals; will grow in the poorest of soil, either on seashore or mountains; seed can be sown either in fall or spring; sandy soil preferable; height 2 1/2 feet.

Finest Single Mixed.

Pkt. 5c; oz. 50c

CENTAUREA CYANUS fl. pl. (Double Bachelor's Button). Beautiful large double flowers.

Double Blue,

Pkt. 15c; 1/2-oz. 25c

Double Mixed.

Pkt. 10c; 1/4-oz. 25c

Royal Sweet Sultans

CENTAUREA IMPERIALIS (Giant Cornflower).—The flowers are of enormous size, fragrant and of charming colors; in form they resemble the fuzzy part of the thistle bloom. In colors from white to red to purple. Excellent for cutting.

Mixed Colors.

Pkt. 10c; 1/4-oz. 35c

Marguerite.—Flowers 4 inches across; purest white.

Pkt. 10c; 1/4-oz. 50c

MOSCHATUS (Sweet Sultan).—Hardy annual, with very fragrant and showy flowers; 1 1/2 feet; June to September.

Finest Mixed.

Pkt. 5c; 1/4-oz. 35c

SAUREOLENS (Yellow Sweet Sultan).—Very showy.

Pkt. 10c; 1/4-oz. 50c



Chinese Wool Flower

CHINESE WOOLFLOWER

A new annual flower. Very showy, odd and novel. The bunches of wool-like glowing crimson flowers are produced in profusion. Flowers come early and do not fade until hit by frost. Height 2 to 3 feet. Start early and transplant after danger of frost is over. A large bed of these plants certainly produce a magnificent display and will be a dazzling blaze of color from early, until frost.

Pkt. 15c; 2 for 25c; 1/8-oz. \$1.00

We have Annual Flowering Plants in any quantity during April, May and June. See General Price List, page 79.



Cosmos

CHRYSANTHEMUM

These are very showy flowers of easiest cultivation, flowering from July to frost; excellent for cutting; height 2 feet. (For plants, see page 77.)

Single Annual, Finest Mixed.

Pkt. 10c; ¼-oz. 50c

Double Annual, Finest Mixed.

Pkt. 10c; ⅛-oz. 20c

JAPANESE EARLY FLOWERING (Double Flowering.)—These flower in the open ground from August to November; splendid plants for show effect; height 3 feet.

Pkt. 15c

LEUCANTHEMUM.—(See Shasta Daisy, under Daisies, page 57; Plants, page 85.)

CINERARIA

(Hybrid Grandiflora)

We pride ourselves in offering the choicest strain of this gorgeous flower; grand, large blooms in umbel spikes are borne way above the foliage; colors and markings are superb; 1½ feet; tender annual for pots.

Pkt. 35c

CLARKIA

A mighty handsome annual; of easy cultivation; flowers resemble carnations and flower freely; colors, white, crimson, orange shades; 2 feet; July to October.

ELEGANS.—Double mixed.

Pkt. 10c; ¼-oz. 35c

COBAEA SCANDENS

Our most popular and rapid climbing annual, flowering the first season. Pretty, purple, bell-shaped flowers appear in great profusion during the fall months; foliage very graceful; 20 feet. Start seed under glass. (For plant see page 79.)

Pkt. 10c; ¼-oz. 35c

HAVE YOU PETS?

Note what we have to offer in Kittens, Puppies, Birds, etc., see pages 151 to 160.

COSMOS

Beautiful autumn-blooming plants. They produce thousands of beautiful flowers in pure white, pink and crimson shades, furnishing an abundance of cut blooms for autumn decorations when other flowers are scarce. Can be sown in spring in the open ground, when danger of frost is past, or if wanted early the seed should be started under cover and afterwards transplanted. Set plants not less than 18 inches apart. When about a foot high the tops should be pinched out to induce a bushy growth. They do well almost anywhere.

EARLY FLOWERING MAMMOTH.—Claimed to be as large as the Mammoth Perfection and to flower in July and August. If sown early, flowers can be picked in July. Grows 4 feet high; flowers large and beautiful. Crimson, White, Pink or Mixed.

Pkt. 10c; ¼-oz. 35c

KLONDYKE.—Golden yellow, flowers large and borne on long stems; medium early.

Pkt. 10c; ¼-oz. 50c

GIANT PERFECTION.—Flowers often 4 inches across; plants 7 feet high; blooms do not appear until October. If topped when half grown plants will bloom earlier. White, Pink, Red or Mixed.

Pkt. 10c; ¼-oz. 35c

PINK LADY LENOX.—Gigantic flowers, with wide, overlapping petals of splendid substance, making a perfectly circular flower which is borne on very long stems, in color a beautiful deep rosy pink.

Pkt. 10c; ¼-oz. 25c

COREOPSIS

(Lanceolata Grandiflora)

Hardy perennial, with large, showy, bright yellow flowers, produced in the greatest abundance from June till frost. As a cut flower they stand near the head among hardy plants, having long stems and lasting in good condition a week or more. Easily grown from seed, flowering the first year, if sown early under glass.

Pkt. 15c; ¼-oz. \$1.00

(See illustration and plants, page 85.)



Cobea Scandens

CULTURAL DIRECTIONS FREE.—Our 2-page leaflet gives full instructions on growing flowers from seed. Free on request. Read it and be successful.

CYPRESS VINE

A fast-growing annual vine, with feathery, dark-green foliage and star-like flowers, July to October; 20 feet. Plant early in light soil and warm location.
 Finest Mixed. Pkt. 10c; 1/4-oz. 25c

DAHLIA

This very popular flower can easily be raised from seed; started inside in March will produce flowers in August.

CACTUS MIXED.—Double flowers with pointed petals (see cut page 91.) Pkt. 15c

DOUBLE FINEST MIXED.—Produce flowers of the "Show" or "Decorative Class."
 Pkt. 10c

SINGLE GIANT PERFECTION.—Single flowers of great size and beauty. Pkt. 10c

DAHLIA BULBS.—Latest and best. (See pages 89 to 92.)

DAISIES

SHASTA DAISY—Very popular and desirable perennial; the large single white flowers are freely produced on long stems. We offer you the best strain in plants or seed. (See cut in Plant Department, page 85.)
 Pkt. 15c; 1/2-oz. \$1.00

Double Daisies.—(See Bellis, page 82.)

DELPHINUM

(Perennial Larkspur)

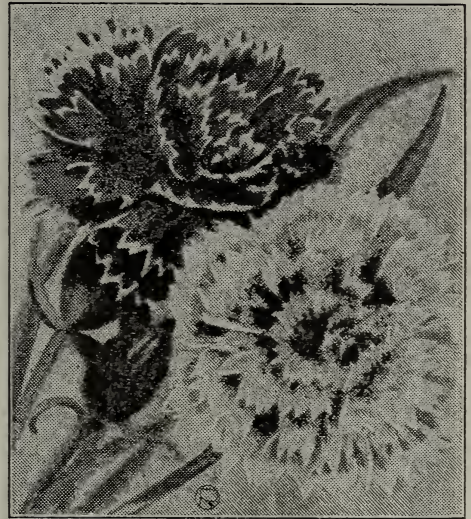
(See cut, page 83.) Handsome, hardy perennial plants for the herbaceous border and shrubbery, producing a profusion of splendid spikes of flowers throughout the summer. The beautiful, graceful, long-stemmed flower spikes make handsome bouquets and last well when cut. If started early will bloom the first season from seed. (For large plants see page 83.)

R. R.'s PRIZE MIXTURE.—Superb collection of the choicest colors; new, rare and beautiful shades. Makes wonderful cut flower material and should be planted generously.
 Pkt. 15c; 1/2-oz. 75c

CHINESE AZUREUM.—Branches very freely, produces its flowers in greatest abundance; clear, deep blue; height 3 feet.
 Pkt. 10c; 1/2-oz. 25c

BELLADONNA.—Very free and continuous bloomer; delicate and beautiful; clear turquoise blue. Pkt. 25c; 5 pkts. \$1.00

FORMOSUM.—Long-spurred, brilliant blue flowers, with white center; 3 feet; July to October. Pkt. 10c; 1/2-oz. 35c



Dianthus

DIANTHUS

(Garden Pink)

All the varieties listed below are very desirable, and will flower the first season, even sown out of doors in May; they flower early and continue throughout the entire summer; they are excellent for cutting, and bedding; 1 foot.

CINENSIS (Chinese Pink.)—Large, showy flowers in unlimited variety of bright colors.
 Pkt. 10c; 1/4-oz. 50c

HEDDEWIGII.—(Japan Pink.) Beautiful rich colors. A very popular variety.
 Finest Mixed. Pkt. 10c; 1/4-oz. 75c

FIREBALL.—New, extra double, brilliant, dark scarlet; very beautiful.
 Pkt. 10c; 1/2-oz. 50c

SNOWDRIFT (Lanceolatus).—Extra large, pure white, double, fringed.
 Pkt. 10c; 1/2-oz. 50c

PRIZE MIXTURE.—Very rich mixture, all kinds. Pkt. 15c; 1/4-oz. 75c

SEMPERFLORENS (Perennial Hardy Ever-blooming Garden Pinks.)—Very beautiful, sweet-scented, double, semi-double and single flowers in great diversity of colors.
 Pkt. 15c; 1/2-oz. 60c

DIMORPHOTHECA

(African Golden Daisy)

Hardy annual, a great favorite on account of its handsome golden-orange flowers, which are borne most profusely all summer; 15 inches. Does well in dry situations. (See cut.)
 Pkt. 10c; 1/2-oz. 50c

Clatskanie, Ore., Jan. 15, 1920.
 Routledge Seed & Floral Co.

Dear Sirs: I received the Bird in first-class shape and I like the Bird very much. He took his bath and he eats, so I guess he will be O. K.

Yours very truly,
 MRS. JOHN NIXAM.

See Bird and Pet Dept., pages 150 to 160.



Dimorphotheca—African Golden Daisy

A HEDGE of Free Flowering Dahlias is AS BEAUTIFUL and more showy than a hedge of ROSES. They are in full bloom when other flowers ARE SCARCE. See pages 89 to 92.



Digitalis—Foxglove Plant and Flower Spike.

DIGITALIS

(Foxglove)

Hardy perennials; very desirable for effective massing or grouping; invaluable either in the hardy border, between shrubs or in solid beds; 3 to 5 feet. For strong flowering plants, see page 83.

BEAUTY MIXTURE.—Comprising all the choicest colors. Pkt. 10c; ¼-oz. 75c
able, flowers rosy pink.

GLOXINAEFLORA, Finest Mixed.—Flowers spotted similar to Gloxinias. White, pink and purple flowers. Pkt. 10c; ¼-oz. 50c

GLOXINAEFLORA ROSEA.—Very desirable. Pkt. 10c; ¼-oz. 75c

MONTROSA (Mammoth Foxglove).—The tall spikes of flowers are surmounted by one monstrous bloom; all colors mixed. Pkt. 10c; ¼-oz. 60c

DOLICHOS

(Hyacinth Bean)

Annual climbers; beautiful foliage and clusters of hyacinth-like purple and white flowers, borne in clusters; 10 feet; July to September.

White or Purple Mixed. Pkt. 10c; oz. 25c

ESCHSCHOLTZIA

(California Poppy)

One of the most popular garden annuals; 1 foot. Sow the seed where plants are to remain in the fall or early spring. It stands considerable cold and blooms early, profusely and continuously until July. Later sowings for late flowers. (See cut.)

Finest Mixed.—All shades. Pkt. 5c; oz. 50c

Californica.—Bright yellow. Pkt. 5c; oz. 40c

Alba.—Pure white. Pkt. 5c; oz. 40c

Carmine.—A beautiful rose carmine. Pkt. 10c; ¼-oz. 40c

Golden West.—Very large, bright yellow flowers with orange centers. Pkt. 10c; oz. 60c

ECHINOCYSTIS LOBATA

(Wild Cucumber)

The fastest-growing annual vine in existence; will grow 20 feet in six weeks; pretty foliage and inconspicuous white flowers; soak seed in water over night before planting in dry weather.

Pkt. 10c; oz. 35c



Echinocystis—Wild Cucumber

GALLARDIA

(Blanket Flower)

Splendid, showy plants for beds or borders; excellent for cutting; the hardy perennial varieties; if sown early will bloom the first season; July to frost; 1½ feet. (Field-grown plants, page 83.)

GRANDIFLORA SUPERBA.—Hardy perennial splendid mixed varieties in crimson and gold; 2 feet. Pkt. 15c; ¼-oz. 50c

LORENZIANA.—Hardy annual; double mixed colors; 2 feet. Pkt. 10c; ¼-oz. 35c



Eschscholtzia—California Poppy

FEED YOUR PLANTS. You must supply "food," in other words fertilizer, if you want the best results. Read about "Wonder" and "C-M," pages 38 and 39; 20-page "Booklet" free.

Wild Flower Gardens

Try a packet of our "Wild Flower Garden"; something new and interesting to see most every day. See page 73.

GLOXINIA

Showy free-flowering house plants with rich colored bell-shaped flowers. Tender perennial that need greenhouse culture.

HYBRIDA GRANDIFLORA.—The best strain in existence, embracing all the choicest self-colored, tigered and spotted flowers.

Pkt. 25c

GOMPHRENA

(Globe Amaranth)

A dwarf hardy annual, with pretty clover-like beads of purple, white and red flowers; 2 feet; flowers everlasting.

Finest Mixed. Pkt. 5c; 1/4-oz. 25c

GODETIA

(Satin Flower)

This showy, hardy annual deserves greater popularity. Attractive flowers of satiny texture, from white to all shades of pink and crimson. They grow rapidly, and flower profusely in poor soil, or easy cultivation. Fine for seashore or mountain resorts; 1 foot; July to October.

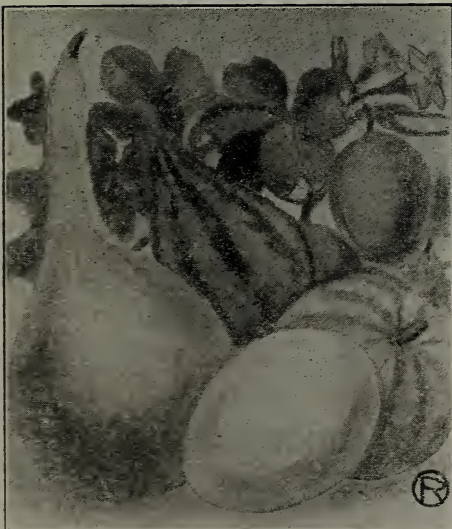
White, Bright Red or Finest Mixed. Pkt. 10c; 1/4-oz. 50c

GOURDS

These are desirable in many places where an immense amount of vine is wanted quickly. Most sorts are good for 20 feet in a season and the blooms of some are quite striking and handsome. With many sorts the fruit is unique and ornamental and often useful. The small fancy gourds are excellent toys for children.

CALABASH.—The famous pipe gourd, dipper shaped. Pkt. 10c; oz. 40c

EGG, ORANGE, TURK'S TURBAN, PEAR, SPOON or MIXED, all kinds. Pkt. 10c; 1/4-oz. 15c

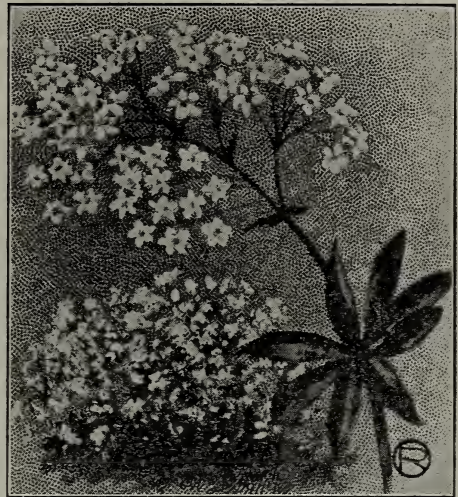


Ornamental Gourds

GYNERIUM

(Pampas Grass)

ARGENTEUM.—Hardy perennial; the famous Pampas Grass, with beautiful silvery plumes; 10 feet. Pkt. 10c



Gypsophila—Baby's Breath

GYPSOPHILA

(Baby's Breath)

Pretty free flowering, elegant plants, succeeding in any garden soil. Their misty white panicles of bloom are largely used for mixing with other cut flowers. The annuals should be sown early in the spring and mid-summer for a continuous supply.

ELEGANS ALBA.—Hardy annual, easily grown from seed; flowers pure white; 2 feet; June. Pkt. 10c; 1/4-oz. 25c

ELEGANS ROSEA.—Hardy annual; flowers bright rose; very dainty; 2 feet. Pkt. 10c; 1/4-oz. 40c

MURALIS.—Hardy perennial; plants dwarf, about 6 inches; flowers shell pink; fine for borders or rock work. Pkt. 10c; 1/4-oz. 50c

PANICULATA.—Hardy perennial; one of the finest for cutting; pure white flowers, very small, and borne in large, delicate sprays; June to September; 3 feet. Pkt. 15c; 1/8-oz. 25c

(For strong roots of G. Paniculata for immediate effect, see page 83.)

HELIANTHUS

(Sunflower)

The single annual Sunflowers are indispensable for cutting and a bright display of yellow flowers in the garden, borders or among shrubs. Plant early in a sunny place and they will come into bloom early in the summer and keep up a constant supply of flowers until cut down by severe frosts in the fall. We offer some improved types of special merit.

GLOBOSUS FISTULOSUS (Globe or Dahlia Sunflower.) Flowers large, double, very full in the center and of a rich saffron color; 6 feet. Pkt. 5c; oz. 40c

PERENNIAL MIXED.—A choice mixture of the best perennial varieties. Pkt. 15c; 1/8-oz. \$1.25

CUCUMERIFOLIUS — STELLA (Improved Miniature Sunflower.) Grows about 3 feet tall, covered with large single 5 to 6-inch flowers of the purest golden yellow, with black disc. Pkt. 10c; 1/4-oz. 50c



Helianthus—New Miniature

ORION—Artistic and effective new variety of "Stella." The petals are twisted like a Cactus Dahlia. Pkt. 10c; ¼-oz. 40c

NEW MINIATURE MIXED.—A multitude of new varieties have been raised from the popular Miniature Sunflower, which we offer in mixture. They all differ from the parent, most of them being larger, and many with curiously twisted petals. The prevailing colors are pale yellow, golden yellow and creamy white, some with black centers, and all beautiful; for cutting they are indispensable. Pkt. 10c; ¼-oz. 50c

HELIOTROPE

Delightfully fragrant, tender perennial; popular pot and garden bedding plant; also for cutting. Some of the best plants may be raised from seed very readily; 1½ feet; start inside or under glass.

FINEST MIXED. Pkt. 10c; ½-oz. 35c

MIDNIGHT.—New; handsome, large flowers, lively shade of purple, variegated with white; foliage beautiful. Pkt. 15c



Heliotrope

HOLLYHOCKS

Very popular hardy plants. Easily grown. Seed sown any time before mid-summer will produce fine plants for flowering the next summer.

DOUBLE VARIETIES.—Our strain of this is the best that can be produced; seeds saved from the most double flowers.

White, Pink, Crimson, Yellow, Lilac or Mixed. Pkt. 10c; ¼-oz. 75c

ALLEGHENY. — Semi-double; mammoth flowers, having the edges of the petals finely fringed and lacinated; will bloom the first year if sown early.

Choicest Mixed Colors. Pkt. 10c; ¼-oz. 75c

NEW ANNUAL EVER-BLOOMING.—This is one of the best introductions of late years. Seeds sown in the house in March will produce flowers in July on plants 4 feet high; the plants do not attain their perfection until their second year, when they grow 7 to 10 feet high, and flower continuously from June till frost.

Single Mixed. Pkt. 10c; ¼-oz. 50c

Double Mixed. Pkt. 15c; ¼-oz. 60c

HOLLYHOCK

PLANTS IN
ALL COLORS
OFFERED ON
PAGE 84.



Hollyhock

HUNNEMANNIA

FUMARIAEFOLIA (Giant Yellow Tulip Poppy).—Hardy annual; foliage fern-like; flowers tulip-shaped, golden yellow; very showy; July to frost.

Pkt. 10c; ¼-oz. 35c

HUMULUS.—See next page.

IPOMOEA

(Moonflower)

GRANDIFLORA ALBA.—Large, heart-shaped leaves, and large, pure white flowers, which open only late in the evening; 10 feet. Pkt. 15c; ¼-oz. 25c

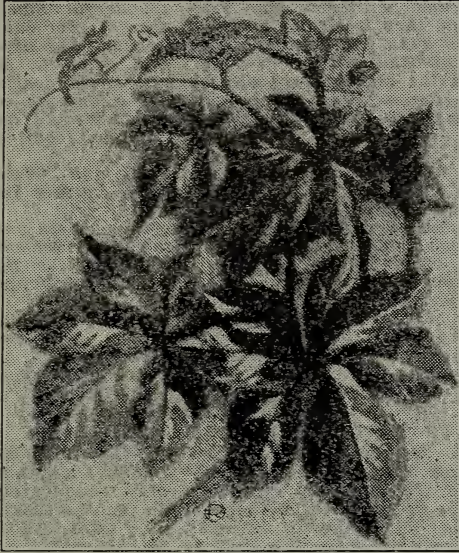
HUMULUS

(Japanese Hop)

Hardy annual climber; of rapid growth; attains a height of 12 feet.

JAPONICA VARIEGATA.—Foliage green and white; very pretty and effective; not affected with insects. Pkt. 10c; ¼-oz. 35c

ENGLISH HOP ROOTS. Each 15c



Humulus—Japanese Hop

KOCHIA

SUMMER CYPRESS or BURNING BUSH.—Annual; forms dense bushes of upright plumage-like foliage; during the summer they remain light green and in early fall they change to carmine and blood red; 2 feet; makes a dainty and showy hedge or nice single specimens.

Pkt. 10c; ¼-oz. 25c

KUDZU VINE

(Pueraria Thumbergiana)

To this must be awarded first place as the fastest growing hardy climbing plant. It will grow 8 to 10 feet the first year from seed, and after it has become established there seems to be no limit to its growth, 50 feet in a single season being not unusual. Its foliage is large and covers well; it bears small racemes of rosy purple; pea-shaped blossoms towards the close of August. A splendid subject for covering permanently verandas, etc.

Pkt. 10c; ¼-oz. 25c

LARKSPUR

These are splendid, hardy annuals, which, when grown in beds or borders, make a pleasing effect, and the slender flower stalks, when cut, are most desirable for vases; July to October.

DOUBLE DWARF ROCKET.—1 foot; compact growing bush, splendid spikes of double flowers in all colors.

Mixed. Pkt. 10c; ¼-oz. 35c

GIANT HYACINTH FLOWERED.—3 feet; fine, compact spikes of beautiful flowers.

Mixed. Pkt. 10c; ¼-oz. 25c

EMPEROR.—Tall, slender spikes of exquisite double flowers in unlimited quantity and of delicate shades; 3 feet.

Mixed. Pkt. 10c; ¼-oz. 25c

PERENNIAL LARKSPUR.—(See Delphinium, page 57; plants, page 83.)

LATHYRUS LATIFOLIUS

PERENNIAL SWEET PEA.—Free flowering, hardy perennial climbers, bearing beautiful flowers all season.

White or Pink. Pkt. 10c; ½-oz. 50c
Mixed. Pkt. 10c; ½-oz. 35c

FLOWERING PLANTS.—During the months of April, May and June we have thousands of choice, well-grown plants. See page 79.



Trailing Lobelia

LOBELIA

ERINUS GRACILIS.—Trailing bright blue flowers; excellent for vases, hanging baskets and window boxes.

Pkt. 10c; ½-oz. 25c

HYBRIDA SAPHIRE (New).—This is by far the most beautiful trailing Lobelia to date; very large, deep sapphire blue flowers, with a large and clear white eye; very free and early flowering; extra long trailer, for baskets and boxes.

Pkt. 25c

CRYSTAL PALACE COMPACTA.—Little dwarf bedding plant; dark blue flowers cover the whole plant during the entire season; very compact and used extensively in carpet bedding or edging; height 4 inches.

Pkt. 15c; ½-oz. 60c

WHITE GEM.—Compact little plants, covered trailer, for baskets and boxes.

Pkt. 10c

CARDINALIS (Cardinal Flower).—Hardy perennial, with spikes of deep cardinal red flowers; August and September; 3 feet.

Pkt. 15c

BUY a package of WONDER ODOORLESS FERTILIZER and feed your plants according to directions. YOU WILL BE PLEASED at the results. See page 38.

LUPINUS

Ornamental, free-flowering, easily grown, with long, graceful, upright spikes of rich and variously colored pea-shaped flowers; valuable for mixed borders and beds.

ANNUAL DWARF MIXED.—Valuable for cutting; 2 feet. Pkt. 10c; ¼-oz. 35c

POLYPHYLLUS MIXED.—Showy perennials, growing stout and erect; good for cutting, flowers in great variety of colors; 3 to 4 feet; May and June.

Pkt. 10c; ¼-oz. 20c

MARVEL OF PERU

(Four o'Clock)

Hardy annual, flowering from July to October; brilliant colors; 3 feet.

Finest Mixed. Pkt. 10c; oz. 35c



African Marigold

MARIGOLD

(Tagetes)

Widely grown, hardy annuals; invaluable for bedding and producing an elegant display of yellow, orange and brown flowers from early summer till frost.

MAMMOTH AFRICAN, Finest Mixed.—Very large and double, orange-yellow flowers; 2 to 3 feet. Pkt. 10c; ¼-oz. 25c

DOUBLE FRENCH.—Flowers double, brown-red and golden-yellow; rich and pretty. Tall or Dwarf Mixed. Pkt. 10c; ¼-oz. 35c

MESEMBRYANTHEMUM

Dwarf trailing plants of great beauty, blooming the whole summer, thriving best in a dry, loamy or sandy soil; hardy annuals; 12 to 15 inches.

TRI-COLOR.—Very dainty, pointed petaled, salmon-pink flowers. Pkt. 15c

CRYSTALLINUM (Ice Plant).—Flowers white, prized for its singular icy foliage. Pkt. 15c

MIMULUS

MOSCHATUS (Muskplant).—A pretty, trailing plant with small yellow flowers, giving forth a musk-like fragrance; fine for hanging baskets, etc. Annual. Pkt. 15c

Bend, Ore., Oct. 30, 1920.

Routledge Seed & Floral Co.

Dear Sirs: I am writing you this letter as an appreciation of your splendid seeds and fertilizers.

Our garden never was such a success as it was this year. It was surely wonderful the way everything grew. Everybody wondered what in the world we did, to have such grand vegetables and beautiful flowers. I have recommended your seeds and fertilizers to all my friends. I never saw such wonderful Sweet Peas, they were the largest flowers I ever saw. I do wish you could have seen them. We used a combination of "Wonder" and dried C. M. and the results were all that one could desire.

I am sending by parcel post a sample of vegetables grown from your seeds. We got 275 lbs. of Pride of Multnomah Potatoes from 10 lbs. of seed.

I hope you will keep dried C. M. and "Wonder" in stock always and Mulford Culture for Sweet Peas.

I am very glad to have had your services and helpful information during the past season. My Sweet Peas got first prize here at the flower show. I got your best grade seed and it does pay.

I hope I will have the pleasure of your catalog as soon you have it ready.

Yours very truly,

MRS. C. L. SCHWAB.

MIGNONETTE

(Reseda)

A universal favorite; very fragrant; no home garden is complete without Mignonette. It needs a cool soil only moderately rich; grows 6 to 12 inches high and is treated as a half-hardy annual. (See cut.)

GRANDIFLORA.—Large-flowering, sweet, fragrant, spikes of greenish yellow color.

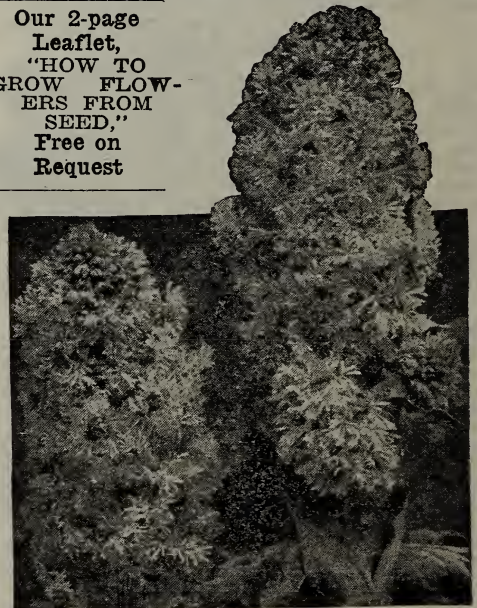
Pkt. 5c; oz. 25c

DEFIANCE.—Giant spikes; flowers abundant and very fragrant. Pkt. 10c; ¼-oz. 15c

MACHET RED.—Excellent for pots or garden; highly colored, fragrant flowers. Pkt. 10c; ½-oz. 25c

WHITE PEARL.—New; the best white flower; very attractive. Pkt. 10c; ½-oz. 35c

Our 2-page
Leaflet,
"HOW TO
GROW FLOW-
ERS FROM
SEED,"
Free on
Request



Mignonette—Flower Spikes

GLADIOLI BULBS make a beautiful display when in bloom and are of the easiest culture and really not expensive, as they multiply rapidly. See page 89.

MORNING GLORY

(Ipomoea)

The tall varieties are popular, well known, rapid-growing climbers of the easiest cultivation; very fine for covering arbors, trellises, porches, etc.; give them rich soil and a warm situation. The Minor or Dwarf varieties flower very freely and do not require support.

CONVOLVULUS MAJOR.—Tall, choice, single mixed; all colors. Pkt. 10c; oz. 25c

CONVOLVULUS MINOR.—Dwarf mixed. Pkt. 10c; oz. 25c

IMPERIAL JAPANESE FRINGED.—These have very large fringed flowers in a great variety of the most exquisite colorings; handsome foliage. Pkt. 10c; oz. 35c
Japanese Double Mixed. Pkt. 10c; oz. 50c

CHOICE PRIZE MIXTURE.—This is a mixture of both American and Japanese varieties; very choice. Large Pkt. 10c; oz. 25c
(Note.—Soak the Japanese Morning Glory seed in warm water for 24 hours before planting.)

MYOSOTIS

(Forget-Me-Not)

Few spring flowers are more admired than the lovely Forget-Me-Nots, which are especially effective when grown in masses. Perennials and hardy if given slight protection through the winter. Seed may be sown any time from spring till mid-summer. The Alpestris and Dissitiflora come into bloom in April, and are largely used for bedding or borders in connection with spring-flowering bulbs, Pansies, etc. The Palustris sorts do not bloom till May, but continue till fall. Perennial plants, page 83.

DISSITIFLORA.—Rich blue; early flowers in fine sprays; 6 inches. Pkt. 15c; 1/8-oz. \$1.00

ALPESTRIS VICTORIA.—Of bushy habit; bearing large, double, bright blue flowers; yellow eye; very fine; 6 inches. Pkt. 10c; 1/8-oz. 50c

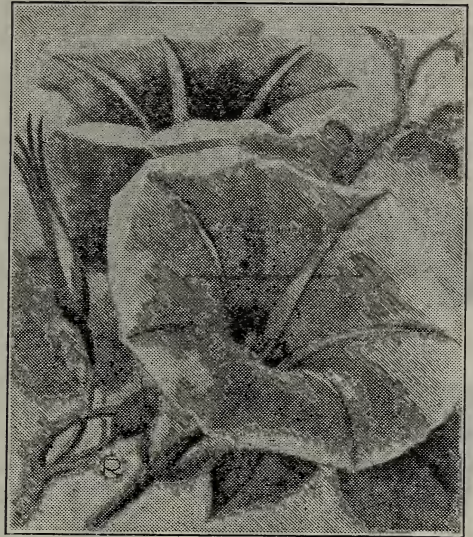
ALPESTRIS ROYAL BLUE.—Rich indigo blue; 9 inches. Pkt. 15c; 1/8-oz. 35c

FINEST MIXED.—A mixture of blue, rose and white varieties. Pkt. 10c; 1/8-oz. 25c

PALUSTRIS SEMPERFLORENS.—Perennial; flowers bright blue; blooms from early spring until autumn. Pkt. 15c; 1/8-oz. \$1.00



Myosotis—Forget-Me-Not



Morning Glory

NEMESIA

GRANDIFLORA COMPACTA TRIUMPH.—A very pretty, half-hardy, free-flowering annual; the plants grow about a foot high and the beautiful, dainty flowers are very varied in color, including rose, yellow, blue, orange, etc. An ideal bedding plant. Seed sown in the autumn makes beautiful pot plants for early spring blooming.

Mixed Colors. Pkt. 15c; 1/8-oz. \$1.00

NICOTIANA

One of the easiest annuals to raise and one of the most effective. The blossoms in shape are not unlike a Petunia blossom but with a longer tube. The flowers open toward evening and emit a powerful perfume.

AFFINIS (Tuberose-flowered Tobacco.)—Delightfully sweet-scented, pure white, tubular flowers, blooming continually; annuals; 2 to 3 feet. Pkt. 10c; 1/4-oz. 35c

AFFINIS HYBRIDA.—Splendid hybrids in blue, red and rose, etc., shades. Pkt. 10c; 1/8-oz. 50c

SANDERAE.—A lovely hybrid Tobacco of elegant branching habit, and bearing on light, graceful stems great quantities of very beautiful rosy carmine flowers; a valuable border plant, remaining decorative from summer to autumn.

Pkt. 10c; 1/8-oz. 35c

NIGELLA

(Love in a Mist)

DAMASCENA.—A compact, free flowering plant with finely cut foliage, curious looking flowers and seed pods; hardy annuals; blue and white; 1 foot.

Mixed Colors. Pkt. 10c; 1/8-oz. 15c

MISS JEKYLL.—A lovely variety with cornflower blue blossoms; splendid for cutting. Pkt. 10c; 1/8-oz. 25c

HOUSE PLANTS

Don't overlook the beautiful Ferns and Palms that we offer on pages 74 and 75. The small sizes go safely by mail and are very pretty.

PERENNIAL FLOWERING PLANTS—By buying our strong field grown plants you save time and get a profusion of flowers the first season. See pages 82 to 86.



NASTURTIUM—TALL OR CLIMBING

The most popular and most beautiful free-flowering annual climbing vines. These are all of strong vigorous growth, throwing out running shoots that can be trained upon strings or wires, or can be readily made to climb ordinary paling fences or wire netting. They are very showy also planted at the top of a steep slope and allowed to run down the bank. We offer only the finest strains, producing the largest and richest flowers.

Your choice, Pkt. 10c; full collection, 8 kinds, 50c; per oz., any kind, 25c.

- Asa Gray.—Light yellow, almost white.
 Black Prince.—Velvety crimson, dark leaved.
 Firefly.—Bright yellow, spotted cardinal red, calyx and spur ruby; very pretty and showy.
 Golden Queen.—Sunflower yellow, very fine.
 Primrose.—Creamy yellow, very pleasing.
 Princess Victoria Louise.—Cream white, scarlet spot.
 Regina.—Beautiful light salmon.
 Spitfire.—Bright fiery scarlet.

TALL PRIZE MIXTURE.—This is undoubtedly the finest mixture of tall Nasturtiums offered anywhere; every shade is grown separately and then mixed, dark leaved.
 Large Pkt. 10c; oz. 25c; ¼-lb. 75c

TALL CHOICE MIXED.—A very fine selection of beautiful varieties.
 Large Pkt. 10c; oz. 20c; ¼-lb. 60c

IVY-LEAVED, FINEST MIXED.—The ivy leaves, borne on very slender stems, are of a dark metallic color, which forms a striking contrast to the beautiful flowers; an excellent variety for vases, hanging baskets, etc.
 Pkt. 10c; oz. 25c

VARIEGATED QUEENS.—A new strain of tall Nasturtiums having beautifully variegated leaves; green, white and yellow; flowers large and of many bright colors.
 Superb Mixed. Pkt. 10c; oz. 25c

DWARF NASTURTIUMS

These are of dwarf, compact, rounded growth and are especially desirable for planting as borders to flower-beds or along garden walks. As with all Nasturtiums, they succeed best on light, well-drained soils or in slightly raised beds.

- Aurora.—Terra cotta, reddish orange.
 Beauty.—Yellow and scarlet, very pretty.
 Bronze.—Reddish golden bronze, rich.
 Crystal Palace Gem.—Rich yellow, spotted maroon.
 Empress of India.—Dark scarlet, dark leaved.
 Golden King.—Rich Indian yellow, dark leaved.
 Vesuvius or Salmon Queen.—Salmon rose.

Price, all above Dwarf varieties, Pkt. 10c; Selection of 7 Pkts. 50c; per oz. 25c.

R. R.'s DWARF BEAUTY MIXTURE.—Composed of new and rare sorts; exceedingly brilliant and beautiful. Dark leaved.
 Large Pkt. 10c; oz. 25c; ¼-lb. 75c

CHOICE DWARF MIXED.—Not equal to above, but far superior to most mixtures.
 Large Pkt. 10c; oz. 20c; ¼-lb. 60c

GOLDEN MIDNIGHT (New Dwarf).—A novelty of real merit. From an artistic point of view the contrast between the light foliage and the extremely dark flowers is most remarkable. The foliage is light yellow, variegated, while the flowers are deep crimson, almost black, hence the name "Golden Midnight."
 Pkt. 10c; oz. 35c

PENTSTEMON

(Beard Tongue)

The handsome, brilliant flowers are borne on long terminal spikes, much resembling Gloxinias. Perennial; will bloom the first season if sown early; 3 feet. All colors from yellow to red and purple. (See cut.)

HYBRIDA MIXED. Pkt. 10c

For permanent and hardy climbing flowering vines and trailers, see pages 104 and 105.



Pentstemon

GROW "PRIZE FLOWERS" by using "WONDER ODORLESS FERTILIZER." But do not use TOO MUCH, it is very RICH. See page 38.

GIANT PANSIES

This popular flower thrives best on a cool, moist, but well-drained soil enriched with well-rotted barnyard manure or fine ground bone. Seeds sown early will produce fine plants for summer blooming. The florists' method, though, is to sow in July or August, and protect the plants during the winter, and they will flower continuously early the following spring and summer.

EXHIBITION PRIZE MIXTURE.—For variety of markings, beauty of form, size and splendid texture, this superb strain cannot be excelled. Florists and gardeners will be pleased with this magnificent strain. Pkt. 25c; $\frac{1}{8}$ -oz. \$1.50

STEELE'S MASTODON.—This superb strain is becoming famous among professional florists everywhere. Flowers rare and rich in colors and of giant size; Oregon grown. Mixed. Pkt. 20c; $\frac{1}{8}$ -oz. \$1.25

GIANT TRIMARDEAU.—The most popular bedding strain for this locality, and deservedly so, on account of the strong, sturdy plants and the enormous flowers of the greatest variety of colors; Oregon grown. Finest Mixed. Pkt. 15c; $\frac{1}{8}$ -oz. 75c

ENGLISH SHOW.—A magnificent strain; very large flowers; great diversity of colors. Pkt. 10c; $\frac{1}{8}$ -oz. 60c

CHOICE MIXED.—A fine bedding strain. Pkt. 5c; $\frac{1}{8}$ -oz. 35c

New Giant Flowering Pansies. Collection, 1 pkt. each of the 10 kinds, \$1.60

BLACK GIANT.—Nearly all are jet black; some very dark purple. Rare and rich; immense size. Very effective if planted with pure white or yellow. Pkt. 20c

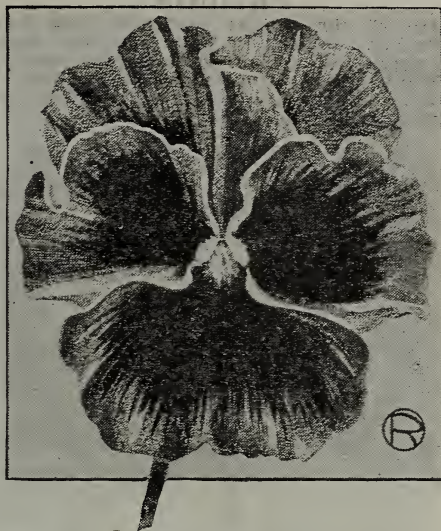
BRONZE MASTODON.—Very large, all shades from bronze to gold, many wonderfully shaded. A color always in demand. Pkt. 25c

GIANT WHITE.—Mammoth, pure white with a dark center. Pkt. 20c



Phlox Drummondii

PINK.—(See Dianthus, page 57.)



Our new product, "C-M," Dry-Kiln Pulverized Cow Manure, is the ideal fertilizer for your Pansy beds. (See page 39.) It makes those giant flowers you admire.

MADAM STEELE.—"Elks Purple." A deep rich royal purple of giant size. Pkt. 25c

GRAND DUKE.—The finest and largest all-white Pansy in the world. Pkt. 20c

MADAME PERRET—Fruited.—Very distinct, frilled or ruffled, edged white, body color wine pink and red, beautifully veined. Pkt. 20c

GOLDEN QUEEN.—Pure yellow, grand form and size; the finest yellow strain. Pkt. 20c

METEOR.—A beautiful pure wine red, profuse bloomer. A favorite for borders. Pkt. 20c

NEW ADONIS.—A giant light blue. Pkt. 20c

PRINCE HENRY.—A splendid dark blue of immense size. The best blue. Pkt. 20c

PHLOX

Large flowering, hardy, annual phlox; are easily grown from seed. Their brilliantly colored flowers make a magnificent display through a long season. Give them a sunny position and light soil. Excellent for mass beds or borders 1 foot high.

DRUMMONDI GRANDIFLORA MIXED.—A splendid mixture of all colors.

Pkt. 10c; 1-oz. 35c
Alba.—Pure white. Pkt. 10c; $\frac{1}{8}$ -oz. 50c

Coccinia.—Bright scarlet. Pkt. 10c; $\frac{1}{8}$ -oz. 50c

Leopoldi.—Rosy pink, white eye. Pkt. 10c; $\frac{1}{8}$ -oz. 50c

HARDY PERENNIAL PHLOX (Decusata.)—These rank among the finest herbaceous perennials for beds and borders; mixture of the finest colors; 3 feet. (See plants, page 84.) Pkt. 10c; $\frac{1}{8}$ -oz. 60c

PLANTS.—Large flowering, choice pansy plants, ready very early in the spring. Can be safely sent by mail. See page 79.

PETUNIA

One of our easiest cultivated and freest flowering annuals. Will succeed almost anywhere and give a continuity of the most brilliant bloom from June till killed by frost. The strains we offer are the very choicest obtainable.



Ruffled Giant Single Petunia

SINGLE PETUNIAS

RUFFLED GIANTS PRIZE MIXTURE.—This strain produces in great profusion enormous flowers, having edges of petals beautifully ruffled and fluted; of great variety of colors, many being beautifully veined; very showy and attractive.

Pkt. 35c; 1,000 seeds \$3.00

DWARF, LARGE-FLOWERING FRINGED.—A new dwarf selection of the most beautiful ruffled and fringed type; compact, free-flowering plants; excellent for bedding or pots.

Pkt. 25c

LARGE-FLOWERED FINEST MIXED.—Fine large flowers in superb mixture.

Pkt. 15c

FINE MIXED.—An assortment of medium-sized flowers; fine for bedding.

Pkt. 10c; 1/2-oz. 25c

DOUBLE PETUNIAS

All of our Double Petunias are selected with greatest care, and contain as large a percentage of double flowers as it is possible to obtain.

GIANT DOUBLE, FINEST MIXED HYBRIDS.

—An exceptionally fine strain; remarkable for the large, beautifully colored double flowers.

Pkt. 50c; 500 seeds \$4.00

GIANT DOUBLE MIXED

—Fringed, unsurpassed.

Pkt. 35c; 500 seeds \$2.50

CHOICE DOUBLE MIXED.

Pkt. 25c; 500 seeds \$1.50

PORTULACA

Low-growing or creeping tender annual, six to eight inches high, and bearing glossy, cup-shaped blossoms in very brilliant and gorgeous colors. The foliage and stems are thick. The seed germinates slowly and should be started under glass or when the weather is hot. These flowers love the sunshine and do best on rather dry ground; excellent for embankments.

Single, Finest Mixed.

1/4-oz. 50c; Pkt. 10c

Double, Finest Mixed.

1/8-oz. 60c; Pkt. 15c

POPPY — PAPAVER

Universal favorite of the easiest culture. They produce a wealth of the most beautiful and showy blooms. Both perennial and annual poppies bloom the first year from early-sown seed. Perennial varieties will, but annuals will not, transplant safely, therefore sow the annuals where they are to remain and thin out, giving each plant ample room to grow and develop.

ADMIRAL (Annual).—A single variety of surpassing beauty; large flowers of glistening white, with a broad band of brilliant scarlet around the top; produce a magnificent effect. Pkt. 10c; oz. 60c

POPPY COLLECTION

One Packet

Each 6

Annual Kinds

only 35c.

POPPY—CONTINUED

MISS SHERWOOD (Annual).—Single, bears large flowers of a satiny white, shaded a silky chamois rose, a combination of rare delicacy. Pkt. 10c; oz. 50c



Single Portulaca

POPPY — Continued

SHIRLEY (Annual).—Charming poppies. Flowers single and semi-double, and range in color from the purest white through the delicate shades of pale pink, rose and carmine to the deepest crimson and blood-red, while many are daintily edged and shaded. The petals are like silk. Free blooming and fine for borders or beds; 1½ to 2 feet.

Mixed. Pkt. 10c; oz. 40c

CARNATION FLOWERED (Annual).—Splendid double fringed flowers.

Mixed Colors. Pkt. 10c; oz. 50c

CALIFORNIA POPPY.—(See *Eschscholtzia*, page 58.)

ANNUAL SUPERB MIXTURE.—A superior strain, containing the choicest of single and double varieties in all of the brightest colors.

Pkt. 5c; oz. 40c

ICELAND, OR NUDICAULE (Perennial).—These are of a very graceful, neat habit, with bright green, fern-like foliage, formed in tufts, from which issue slender stalks, about 12 inches in height, bearing beautiful brilliant single flowers in endless profusion, and most useful for cutting. (For plants, see page 84.)

Yellow, White, Scarlet. Pkt. 10c
Single Mixed. Pkt. 10c; ¼-oz. 50c

DOUBLE ICELAND MIXED.—Very choice.

Pkt. 15c; ½-oz. 50c

ORIENTALE BRILLIANT.—This is the most gorgeous perennial Poppy, flowering in June and July, with enormous vivid scarlet blossoms.

Pkt. 10c; ¼-oz. 50c

PRIMULA

(Primrose)

The first two varieties named below are hardy, early-blooming garden plants, and the others beautiful winter-blooming house plants. Their various forms and blending of colors are exceedingly pleasing and effective. They thrive best in a rich, loamy soil.

POLYANTHUS (Veris Mixed).—Early blooming, dwarf growing plants, valuable for outdoor bedding and edging, 8 inches, perennial.

Mixed. Pkt. 10c; ½-oz. 50c

VULGARIS (Veris Aurea).—Yellow, common, English Primrose; hardy garden variety; perennial; 8 inches.

Pkt. 10c; ½-oz. 60c

OBCONICA GRANDIFLORA HYBRIDS.—A lovely, profuse bloomer, bearing beautiful clusters of single flowers for pots only.

Pkt. 15c

SINENSIS OR CHINESE PRIMROSE.—Beautiful, large, fringed flowers; especially fine for winter and spring flowers in the house; free bloomers.

Finest Mixed. Pkt. 25c

PYRETHRUM

(Golden Feather)

AUREUM.—Half-hardy perennials, grown as annuals; valuable for edging, as their yellow foliage makes a fine contrast with other bedding plants; 6 inches.

Pkt. 10c



Shirley—Poppy

RICINUS

(Castor Oil Bean)

A magnificent and highly ornamental plant, with picturesque foliage and stately growth combined with brilliant colored fruit of the giant varieties. Grown as single specimens on lawns and on pleasure grounds, they form a striking feature; hardy annuals.

ZANZIBARENSIS, Mixed.—Very ornamental; dark bronzy green and red leaves; 8 to 10 feet high.

Pkt. 10c; oz. 35c

SANGUINEUS TRICOLOR.—Blood red stems, deep green leaves, with red veins; 6 feet.

Pkt. 10c; oz. 35c

GIBSONI.—New dark red foliage; 5 feet.

Pkt. 10c; oz. 35c

FINEST MIXED.—All kinds. Pkt. 10c; oz. 25c



Ricinus (Castor Beans)

RUDBECKIA

(Cone Flower)

BICOLOR SUPERBA.—Fine free-flowering annual variety; 2 feet; producing in great abundance on long stems its bright yellow double flowers. (Plants, page 85.) Pkt. 10c

FULGIDA.—Hardy perennial sort, producing in masses during August and September brilliant orange-yellow flowers; 3 feet.

Pkt. 10c

NEWMANI.—Perennial; large, bright orange-yellow flowers, dark centers. Pkt. 15c

SALPIGLOSSIS

Produces very showy, funnel-shaped flowers of large size; fine for beds; half-hardy annuals.

GRANDIFLORA MIXED.—Large flowering. Pkt. 15c; 1/8-oz. 35c



Salvia

SALVIA

(Scarlet Sage)

The Scarlet Sage has long been a favorite bedding plant, bearing long spikes of brilliant scarlet flowers in great profusion from July till frost; seed should be sown as early as possible, either indoors or in a hotbed, and the young plants transferred to their flowering quarters when the weather has become settled and warm.

SPLENDENS COMPACTA.—A splendid showy variety, with large spikes of bright rich scarlet flowers; 3 feet.

Pkt. 10c; 1/4-oz. \$1.00

ZURICH.—New dwarf, of special merit; very early. Brilliant, free flowering; 15 to 18 inches. Pkt. 20c; 1/8-oz. 75c

BONFIRE.—Of dense, compact growth; useful for bedding or borders. Flowers dark scarlet, on spikes which stand clear of the foliage and attract attention at once; 2 feet. Pkt. 20c; 1/8 oz. 75c

SCHIZANTHUS

(Butterfly Flower)

Beautiful garden annuals; flowers charmingly fringed and delicately colored; 1 to 2 feet. Blooms quickly from seed.

GRANDIFLORA MIXED. Pkt. 10c; 1/8-oz. 25c



Stocks

STOCK

(Gilliflower)

By far one of the most popular annuals for garden or greenhouse culture. They are superb for cutting and are of great value to florists for bouquet work. Flowers are of delicious fragrance, large, mostly double, and borne on handsome spikes. While all will flower the first year, the winter stocks will last for 2 years. They are very hardy and often remain in bloom in the yard all winter in the vicinity of Portland. Sow early and transplant.

LARGE-FLOWERED TEN WEEKS.—A splendid double-flowered strain, especially adapted for bedding and pot culture; pyramidal spikes of brilliantly colored flowers; 1 1/2 feet.

Finest Mixed. Pkt. 10c; 1/8-oz. 75c

GIANT PERFECTION, OR CUT-AND-COME AGAIN.—Grown for us by experts and the greatest possible care is taken in the selection of good seed. Of branching habit; two feet, and 85 to 90 per cent of large, double flowers; fine for cutting.

White, Light Blue, Crimson, Dark Blue, Pink, Yellow, or Finest Mixed.

Pkt. 15c; 1/8-oz. 75c

BEAUTY OF NICE.—A handsome, new winter and summer stock of quick growth; flowers of large size, double, and freely produced; 2 feet.

Mixed. Pkt. 15c

Princess Alice.—Double white. Pkt. 15c

Queen Alexandra.—Soft rosy lilac. Pkt. 15c

Beauty of Nice.—Delicate flesh pink. Pkt. 15c

SUNFLOWER.—(See Helianthus, pgs. 59-60.)

SWEET WILLIAM

Hardy biennial, widely grown for the handsome, showy heads of brilliant flowers from June to September; 1 1/2 feet.

Double Finest Mixed. Pkt. 15c

Mammoth Single, Mixed. Pkt. 10c

PERENNIAL FLOWERS are rapidly gaining in favor. **MORE** should be planted; they are beautiful in borders, beds or among shrubbery, and flower each year. See pgs. 82 to 85.

SWEET PEAS "Highest Quality" TRUE VARIETIES**1921 PRIZE COLLECTION, NEW GIANT SPENCERS****Rare, Rich and Wonderful**

Collection Price, 12 Lovely Kinds

(value \$1.55), ONLY \$1.25

FIERY CROSS

Color a scorching fire-red, or orange-scarlet, which scintillates and glitters in bright sunlight, thus adding a glowing fire-like sheen which radiates over the flower.

Pkt. 15c; oz. 75c

HENRIETTA

Beautiful large flowers of a rich cream-pink; very double and frilled extra.

Pkt. 15c; oz. 75c

GOLDEN GLORY

A wonderful flower in size and substance, rich, glowing cerise-salmon; very effective.

Pkt. 15c; oz. 75c

NEW BUTTERCUP

Undoubtedly the deepest, most richly colored of all the cream varieties. Large flowers, beautifully waved, four on a stem.

Pkt. 15c; oz. 75c

KING WHITE

Well and truly named; it certainly is "the king" of all white Sweet Peas. In color, size and beauty of flower, length of stem and vigor, King White is unsurpassed.

Pkt. 10c; oz. 60c

ELFRIDA PEARSON

The flowers are of extra large size, great substance, and produced in fours on long stems and in wonderful profusion. Color lovely pink throughout; the buds and flowers tinted with salmon-pink.

Pkt. 10c; oz. 65c

ROBERT SYDENHAM

This new Sweet Pea is a magnificent, brilliant orange. The large flowers come four on a stem, well placed and beautifully waved. The vines are of vigorous growth, blooming profusely.

Pkt. 10c; oz. 75c

HERCULES

A magnificent soft rose-pink self, of truly giant proportions, undoubtedly the best of its class. A flower of great substance with broad spreading and beautifully waved standard.

Pkt. 10c; oz. 60c

WARRIOR

The flowers are of great size, perfectly formed and placed. Lovers of dark shades will appreciate Warrior, which is by far the finest maroon yet introduced; very rich.

Pkt. 15c; oz. 75c

The Above Collection Will Sow a Drill of 35 Feet.

Early or Winter Flowering Spencer Sweet Peas

This new class of Sweet Peas is the best for the florist to force under glass or for extra early flowers outside. They grow and flower earlier than the Giant Late Spencer. Excellent for sections where the season is late and short or very hot and dry. Plant early. We offer the choicest of recent introductions.

Early Helen Lewis.—Distinct orange-salmon.

Early Liberty.—Large, bright crimson.

Early Lavender King.—Beautiful lavender.

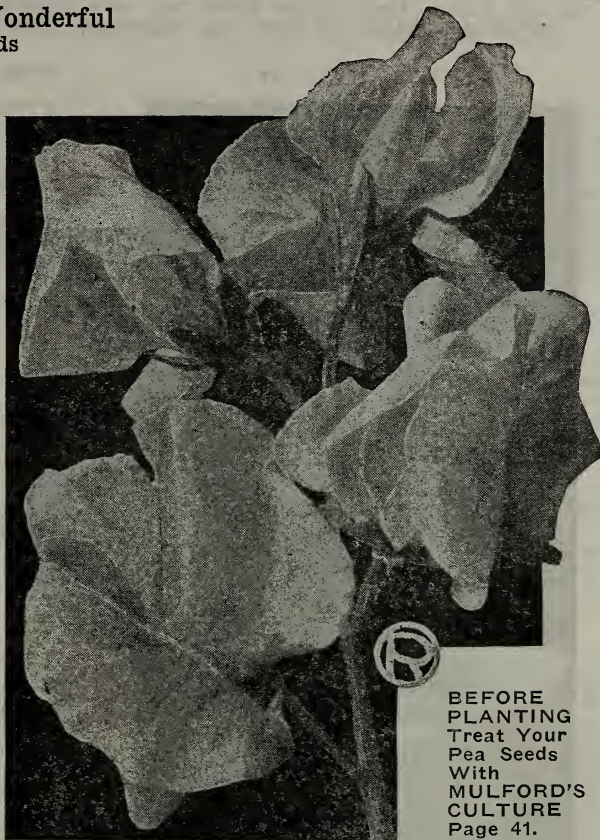
Early Morning Star.—Orange-scarlet; extra fine.

Early Peace.—Rose-pink on cream.

Early Snowstorm.—Grand, pure white.

PRICES.—Your choice, except Early Aviator, 15c pkt.; 2 for 25c; oz. \$1.00; collection of eight 85c. All nine, including Early Aviator \$1.00.

EARLY SUNRISE MIXTURE.—A very select mixture of early varieties. Pkt. 10c; oz. 75c



BEFORE PLANTING
Treat Your
Pea Seeds
With
MULFORD'S
CULTURE
Page 41.

R. F. FENTON

Undoubtedly the best of the lavender varieties, grand for exhibition and garden decoration; strong grower, gives plenty of fours. The individual flowers are very large and refined; the color is a rich clear lavender.

Pkt. 15c; oz. 75c

SCARLET EMPEROR

This is by far the most intense pure-scarlet in existence. The bold flowers are of largest size and are almost sunproof.

Pkt. 15c; oz. 75c

ROYAL PURPLE

Of great merit. A true, rich, royal purple that holds its color. Flowers of giant size and elegant form, very beautiful bunched with white.

Pkt. 10c; oz. 60c

UP-TO-DATE SPENCER SWEET PEAS OF REAL MERIT—Continued

NOTE.—New crop of Sweet Pea Seeds very, very short. Highest quality True Stock cannot be sold for less.

No seed house offers a more select list. We classify under colors for your convenience

SPECIAL—Make up your own collections—60c worth for 50c; \$1.25 for \$1.00

WHITE

KING WHITE.—See Prize Collection, page 69.

ETTA DYKE.—One of the largest and most exquisitely formed pure white Spencers. Beautifully wavy; color absolutely pure.

Pkt. 10c; oz. 50c

CONSTANCE HINTON.—A new, very hardy variety claimed to be the largest White Spencer to date. The buds are tinted with pink, but as the flower develops the pink fades out, leaving a beautiful, large, pure white. Black seed, strong vitality.

Pkt. 15c; oz. 65c

NORA UNWIN.—Large, pure white, exquisitely crinkled wavy petals, four or more flowers to the stem.

Pkt. 10c; oz. 40c

WHITE SPENCER.—A pure white, of large size and splendid substance; long, strong stems.

Pkt. 10c; oz. 50c

YELLOW—PRIMROSE

DOBBIE'S CREAM.—Cream or primrose; nicely wavy, abundance of four-bloom sprays and most floriferous. Strong and vigorous.

Pkt. 10c; oz. 65c

NEW BUTTERCUPS.—See Prize Collections, page 69.

PINK ON CREAM

MARGARET ATLEE.—This charming variety is one of the finest pink yet introduced. The giant flowers are rich, rosy, salmon-pink on creamy buff, a bright yet delicate pink, immense wavy standards and wings inclined to double.

Pkt. 10c; oz. 60c

ETHEL ROOSEVELT.—Giant flowers of finest form. A most charming rich pink on cream. Magnificent.

Pkt. 10c; oz. 50c

HENRIETTA.—See Prize Collection, page 69.

LIGHT PINK

ELFRIDA PEARSON.—See Prize Collection, page 69.

MRS. HUGH DICKSON.—One of the best light pink to date. A European variety of sterling merit.

Pkt. 10c; oz. 60c

MRS. ROUTZAHN.—A lovely combination of apricot and pink. Beautiful, large, wavy flowers.

Pkt. 10c; oz. 50c

PINK

HERCULES.—See Prize Collection, page 69.

COUNTESS SPENCER.—Flowers extremely large, beautifully expanded, crumpled and wavy. Color soft shell pink, deeper at the outer edges.

Pkt. 10c; oz. 50c

LAVENDER

ASTA OHN SPENCER.—Color a beautiful lavender; flowers large, wavy and generally come four blossoms to the stem. Very popular.

Pkt. 10c; oz. 50c

R. F. FENTON.—See Prize Collection, page 69.

DON ALVAR. (New.)—The flowers are of largest size. The color is a delightful soft silvery-blue or lavender.

Pkt. 15c; oz. \$1.00



Treat your Sweet Peas with **MULFORD'S CULTURE**; makes stronger vines, more and larger flowers. (See page 41.)

PRIZE SWEET PEAS.—If you want to grow giant flowers on long stems, you must give your sweet peas good soil, plenty of water at the roots in dry weather, some Wonder Fertilizer, and pick the flowers often. Our "leaflet" tells all—free with each order. Use "C. M." in the Sweet Pea trench. See pages 38-39.

UP-TO-DATE SPENCER SWEET PEAS OF REAL MERIT—Continued

No seed house offers a more select list. We classify under colors for your convenience

NOTE.—New crop of Sweet Pea Seeds very, very short. Highest quality True Stock cannot be sold for less.

SPECIAL.—Make up your own collection—60c worth for 50c; \$1.25 for \$1.00.

Walla Walla, Wash., November 17, 1920.

Dear Sirs:

I used your Spencer Sweet Pea Seeds this summer and was delighted with the beautiful flowers. Thanking you kindly, I am

MRS. B. M. HUNTINGTON.

ORANGE AND SALMON

NOTE.—To get the most delicate shade in this color, flowers should be lightly shaded.

DECORATOR.—The color is old rose with a sheen of terra cotta giving a bright orange effect. The placement and poise of the flower is perfect. Pkt. 15c; oz. 75c

GOLDEN GLORY.—See Prize Collection, page 69.

ILLUMINATOR.—See Prize Collection, page 69.

THOMAS STEVENSON.—The flowers, of largest size and finest Spencer type, are of an intense flaming orange throughout. A grand exhibition variety. Unsurpassed in color and beauty. Pkt. 15c; oz. 65c

BARBARA.—Salmon colored self of large size. It makes a "telling" bunch either for exhibition or table decoration, and is most effective. Pkt. 10c; oz. 65c

ROBERT SYDENHAM.—See Prize Collection, page 69.

BLUE—PURPLE

NEW MARGARET MADISON.—Flowers clear azure blue self—a color that always attracts and is so effective. Pkt. 10c; oz. 65c

ROYAL PURPLE.—See Prize Collection, page 69.

WEDGEWOOD.—Flowers true light blue in color and of fine large full wavy form, some duplex. Pkt. 10c; oz. 60c

BLUE MONARCH.—A new and splendid variety, best dark blue. Pkt. 10c; oz. 50c

BLUE JACKET.—One of the best dark shades; color navy blue. Pkt. 15c; oz. 60c

SCARLET—CRIMSON

FIERY CROSS.—See Prize Collection, page 69.

KING EDWARD SPENCER.—Of vigorous growth, profuse bloomer, giant flowers; most popular scarlet red, long stems. Pkt. 10c; oz. 60c

SUNPROOF CRIMSON.—An intense pure scarlet self-color of rare beauty and substance. Absolutely sunproof. A stocky, vigorous grower, profuse bloomer, the long, strong stems carry four perfect flowers. Pkt. 10c; oz. 50c

SCARLET EMPEROR.—See Prize Collection, page 69.

MAUD HOLMES.—An English introduction and superior to others in this color. Elegant form and type and a beautiful crimson scarlet, giant, wavy flowers, four to a stem. Pkt. 10c; oz. 65c

DARK RED—MAROON

KING MANOEL.—A giant-flowered maroon that is sure to please all who admire rich shades. Of perfect form. Pkt. 10c; oz. 50c

WARRIOR.—See Prize Collection, page 69.

PICOTEE AND BI-COLOR**Shadeland Striped**

GAIETY IMPROVED.—Bright and attractive; white flaked rose crimson; very pretty. Pkt. 10c; oz. 50c

SENATOR SPENCER.—Beautiful large flowers, claret and chocolate on light ground; distinct and greatly admired; a profuse bloomer. Pkt. 10c; oz. 50c

MARTHA WASHINGTON.—A most beautiful variety; bluish-white with a very distinct picotee-edge of rose-pink. Light and dainty. Pkt. 10c; oz. 60c

Rose City Mixture of Grandiflora Sweet Peas

Extraordinary care has been taken in the selection of the varieties and the quantities of each to make up the mixture, and the result is one that cannot fail to excite the admiration of every flower lover. Of course the flowers of the Grandiflora type are not as large as the "Spencers," but the range of color is complete and they are hardy and very free flowering.

Large pkt. 10c; oz. 20c; ¼-lb. 50c; lb. \$1.75

SEE 1921 SUPERB COLLECTION AND SUPERB MIXED NEXT PAGE.

Cupid Sweet Peas

Compact dwarf plants, seldom growing over six inches high. Flowers of good size and at the top of short, stiff stems. Try something new and showy for edgings or a border to other flowers. They are unique and pretty.

Cupid Mixed, Pkt. 10c; oz. 25c; ¼-lb. 75c

A NEW CUPID—Spencer Midshipmite

A new Cupid of Spencer form and size. Grows only four inches high forming a plant 18 inches in diameter. Blossoms four to a stem, large and frilled. Color, white, suffused and edged violet blue, a shy seeder, therefor blooms the whole season. Try this novelty.

Pkt. (12 seeds) 25c; 2 for 40c; ½-oz. \$2.00



QUALITY and TRUENESS is what makes the price in Sweet Peas. Low prices never bought "HIGHEST QUALITY" Seeds. Use Mulford's Culture; see page 41.

SWEET PEAS OF HIGHEST QUALITY—Continued

Some others may have as good, but none any finer Sweet Pea Seed than we.

Sweet Pea Special

Superb 1921 Collection of

7 Giant Spencers

75c Collection for 50c

We have put up, in one large, beautifully lithographed envelope, seven distinct and new Giant "Spencers"; each kind in a separate packet and properly marked. The seed in each packet will plant a row 3 to 4 feet or a total of 20 to 30 feet. With good care and cultivation these will produce thousands of blooms which you can pick in separate shades; an ideal way for special effect.

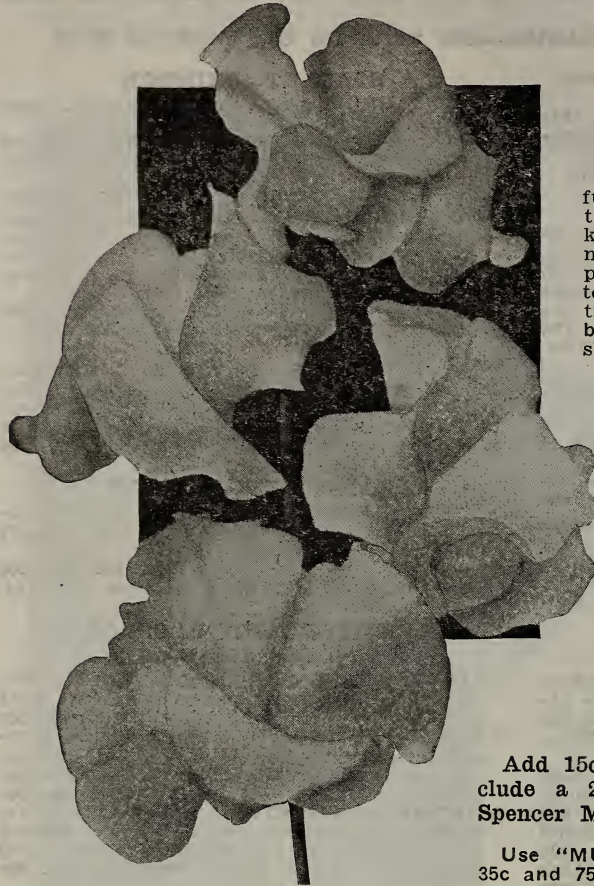
This collection contains our leaflet "How to Grow Prize Sweet Peas," and one full-sized packet of the following distinct and popular colors:

Wedgewood.—A beautiful lavender.
Mrs. Routzahn.—A lovely light pink.
Clara Curtis.—Dainty primrose.
White Spencer.—A large, pure white.
Margaret Atlee. — Beautiful cream-pink.
Decorator.—Rich bright orange.
Maud Holmes.—Large crimson scarlet.

Note. — For full description see classification under "Separate Colors," pages 70-71.

Add 15c Extra or 65c in all and we will include a 25c packet (1 oz.) of R. R. Superb Spencer Mixture. (Described below.)

Use "MULFORD'S CULTURE" for Sweet Peas, 35c and 75c sizes. (See page 41.)

**R. R.'s Superb Mixture of Giant Spencer Sweet Peas**

This is our own special mixture and is composed only of the best giant orchid-flowering wavy Spencer varieties, also contains some new seedlings of promising merit, that have not as yet been named. For healthy, robust growth, wealth of blooms, size of flowers and exquisite and rare colorings, this mixture is unequalled.

Put up and for sale in sealed packages only, 1/2-oz. pkts. 15c; oz. pkts. 25c each; 3 for 60c; 6 for \$1.00.

SCABIOSA

(Morning Bride)

Elegant, hardy annual; fine for cutting and bedding; flowers quite large and very showy, blooming freely during summer and autumn, 2 1/2 feet. All colors.

Finest Mixed. Pkt. 10c; 1/4-oz. 35c
White.—Large flowers. Pkt. 10c; 1/4-oz. 50c

SHAMROCK

This is the genuine Shamrock, and is gathered by a connoisseur on the native land. True Irish. Pkt. 25c

SNAPDRAGON.—(See Antirrhinum, page 52.)

OUR LEAFLET, "How to Raise Flowers Successfully from Seed," is free and is OF REAL VALUE.

THUNBERGIA

Extremely pretty yellow flowers with dark eye; rapid-growing annual trailers; used largely for vases, window boxes, etc.; will flower all summer till frost; 5 feet.

Finest Mixed. Pkt. 10c; 1/4-oz. 50c

TRITOMA

(Red Hot Poker)

Striking and exceedingly ornamental autumn flowering plant. Showy flower spikes, shaded red and yellow; 3 feet. (See cut and plants, page 85.) Pkt. 10c

VALERIANA

(Garden Heliotrope)

A fine old-fashioned hardy plant; flowers have a strong heliotrope odor; showy, red or white; fine for bouquets; 2 feet.

Mixed. Pkt. 10c

A NEW STRAWBERRY—Read about the wonderful "Marvel," a new variety of sterling merit, most delicious of all. Get a start—you will be delighted. See page 112.

VERBENA

One of the finest annual bedding plants and also suitable for borders, baskets and window boxes; its heads of brilliant-colored flowers produce one mass of bloom throughout the summer. (See cut.)

NEW GIANT.—The most beautiful and remarkable variety yet introduced.
Hybrida Mixed. Pkt. 20c; $\frac{1}{8}$ -oz. \$1.00

MAMMOTH.—A carefully selected and improved strain. The trusses and individual flowers are of the largest size, of brilliant colors; free blooming and of vigorous habit.

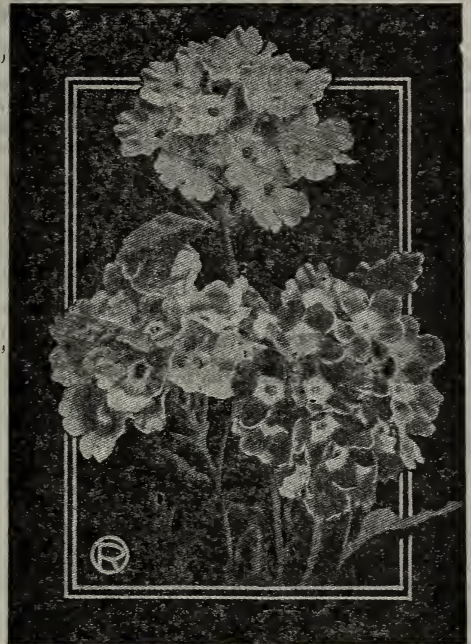
Mammoth White, Scarlet, Rose, Purple or Mixed. Pkt. 15c; $\frac{1}{4}$ -oz. 65c

FINE MIXED.—A choice mixture of large-flowering sorts. Pkt. 10c; $\frac{1}{4}$ -oz. 50c

VIOLET

Viola Odorata is the well-known English Violet, a free-flowering, hardy perennial; easily grown from seed, though somewhat slow in germinating; succeeds best in partially shaded moist places.

ODORATA.—Blue or White. Pkt. 15c



Verbena

WILD CUCUMBER. — (See *Echinocystis*, page 58.)

WALLFLOWER

Very highly prized, old-fashioned plants, grown largely for their fragrance; half-hardy perennial varieties; $1\frac{1}{2}$ feet.
Single Finest Mixed. Pkt. 10c; $\frac{1}{8}$ -oz. 25c
Double Tall Branching, Finest Mixed, Fragrant; 3 feet. Pkt. 25c; $\frac{1}{8}$ -oz. \$1.00

ZINNIA

The plants come quickly from seed and make a fine display in a bed or border. Each flower lasts for several weeks, and the plants bloom abundantly until destroyed by frost; $2\frac{1}{2}$ and 3 feet; annual.

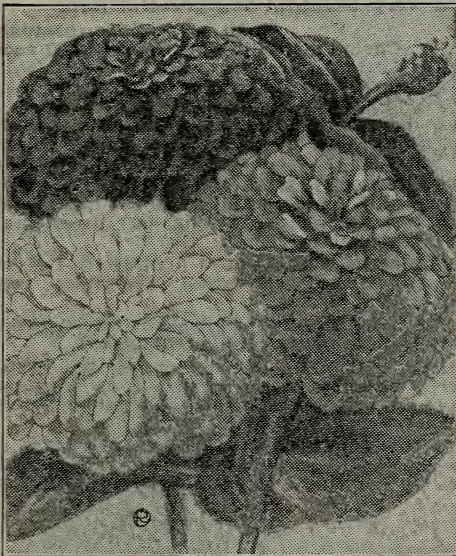
MAMMOTH.—White, Golden-Yellow Orange, Scarlet or Flesh; Pkt. 15c; $\frac{1}{4}$ -oz. 75c

ROBUSTA GRANDIFLORA.—A very choice selection of the largest showy varieties.

Double Mixed. Pkt. 15c; $\frac{1}{4}$ -oz. 60c

TALL GIANT DOUBLE MIXED. Elegant strain, comprising all colors; 3 feet. Pkt. 10c; $\frac{1}{4}$ -oz. 35c

DWARF DOUBLE MIXED. Pkt. 5c; $\frac{1}{4}$ -oz. 35c

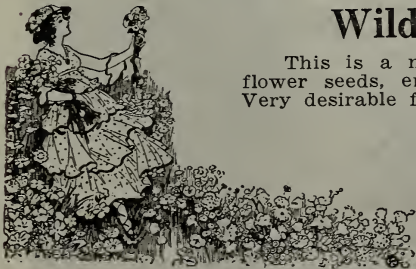


Zinnia

Wild Flower Garden — Mixture

This is a mixture of easy growing, hardy annual and perennial flower seeds, embracing a wide range of different kinds and colors. Very desirable for sowing broadcast along walks, shrubbery, pathways, roadways or in the garden. With little or no care they will produce a bright effect and furnish an abundance of flowers for cutting. If you wish to get the largest returns plant in a prepared bed and when the plants are a few inches high, transplant here and there or wherever wanted. You will derive a great amount of pleasure from watching the development of the flowers from the unknown plants.

Prices—Well filled pkts. 10c; oz. 35c.



Can you think of anything nicer than an abundance of flowers for yourself and your friends who have no grounds? See our special Sweet Pea collection, page 69.

BEAUTIFUL ORNAMENTAL FERNS

A home, no matter how lavishly furnished, is not complete without decorative plants and palms. The bold, majestic palms and delicate, feathery foliage of the ferns lend a grandeur and magnificence that cannot be obtained in any other way.

READ THIS—Specimen Plants—These are large, choice, well-shaped plants, growing in pots, and are very beautiful. They cannot be mailed. We wrap and pack carefully and ship by express at your expense. Add 25c extra for packing, on all plants in pots less than \$1.50.

OSTRICH PLUME (See cut)—The fronds of this popular variety are the most delicate and plume-like. They are beautiful, full and fluffy, well-grown plants; are truly magnificent and last well in the house.

Choice plants, 25c to 35c, postpaid

Specimen plants in pots, \$1.25 to \$2.00

Extra large, \$2.50 to \$3.50

BOSTON FERN—One of the most beautiful and useful of house plants. It is of easy culture, and its sword-like fronds, in large specimens, attain a length of 3 to 4 feet, produced in a bewildering mass, arching, curving and interlacing in every conceivable direction.

Choice plants, 25c to 35c, postpaid

Specimen plants in pots, 75c to \$1.00

\$1.50 and up to \$5.00

ASPARAGUS SPRENGERI (Emerald Feather) (See cut No. 1)—This is undoubtedly one of the handsomest and most valuable evergreen trailing plants for the house and conservatory ever introduced. It is especially valuable for pots, vases, baskets, etc., covering all with its beautiful sprays of lovely green, feathery foliage; quite hardy and valuable for hanging baskets or porch boxes in summer if given partial shade and plenty of water.

Choice plants, 20c to 35c, postpaid

Specimen plants in pots, 35c to 75c

Extra large pots or baskets, \$1.50 to \$2.50

ASPARAGUS PLUMOSUS (Climbing Lace Fern) (See Cut No. 3)—A finer and more delicate plant than the Sprengeri, but hardy and easily grown. Very satisfactory for window and house culture. An extremely graceful window climber, bright green, feathery foliage, as fine as the finest silk or lace.

Choice plants, 20c to 35c, postpaid

Specimen plants in pots, 35c to \$1.25

FILLED FERN DISHES

These are pretty, popular, fashionable and very desirable for centerpieces for the tea or dinner table or as ornamental plants on the sideboard or center tables.

A choice collection of plants growing in pretty Fern Fillers, \$3.25 to \$5.00. (See cut No. 2.)

These must go by express—not mailable.



Specimen plant, Ostrich Plume Fern, in a fancy Jardiniere

MAIDEN HAIR FERN (*Adiantum Cuneatum*).—A very beautiful and graceful fern.

Small plants, 25c, postpaid

Choice plants in pots, 50c to \$1.00 each

CHOICE TABLE FERNS

These handsome little ferns are used mostly in filling fern dishes. Your choice of the following. 25c each; 3 for 65c, postpaid

ASPIDIUM TSUSSIMENSE—Without question the most valuable of all ferns yet introduced for fern dishes; of strong but dwarf and graceful habit.

CRYTOMIUM FALCATUM (The Holly-Leaved Fern)—One of the most desirable; very hardy and pretty.

PTERIS ARGYREA (Silver Fern)—A very showy fern, with variegated foliage.

PTERIS WILSONI—A very pretty and useful fern; green leaves with the ends very peculiarly crested; beautiful sort for fern dishes.

PTERIS CRETICA ALBO-LINEATA—A pretty and useful variegated variety distinctly showing the clear white variegation.



No. 1, Asparagus Sprengeri

No. 2, Filled Fern Dish

No. 3, Asparagus Plumosus

PALMS AND DECORATIVE POT PLANTS

Everyone knows how beautiful palms and decorative plants are, and how much they improve the parlor, hall or dining-room. We offer here only the best and most desirable kinds of easiest culture.

NOTE—Specimen plants or plants in pots cannot be mailed. See note top opposite page.

KENTIA

A beautiful, graceful, handsome looking, strong-growing palm, with deep green, crisp foliage; inclined to dwarf and spreading habit. One of the most popular for home culture, as they are very hardy, and stand the dry atmosphere. If we could have but one palm, it would be a Kentia. (See cut) Prices—Small plants \$1.00, postpaid. Choice plants in pots, 18 to 24 in., \$2.50-\$3.00. Specimen plants, \$5.00 to \$15.00.



Kentia Palm

ASPIDISTRA

Stately decorative house plant of hardy growth. The leaves grow quickly to a height of 18 inches or more. Will stand more gas, dust, cold and heat than any other palm we know of. (See cut.) Prices—Small plants (out of 4-in. pots) \$1.50, postpaid; by express (in pots) \$1.25 each. Small plants, postpaid, 75c to \$1.00.

RUBBER PLANT

(Ficus Elastica) (See cut)

This is certainly one of the best plants grown for decorative purposes. It succeeds well with ordinary treatment. Its glossy, thick, dark-green leaves are not affected by dust or gas. Prices—Small plants, postpaid, \$1.00. Choice plants in pots, not mailable, 15 to 18 in., \$1.50; 2 foot up, \$2.00 to \$5.00 and up.

COCOS PALM

(See cut No. 9.)—The most elegant and graceful of all the smaller palms. Its slender, erect stem is freely furnished with its graceful arching leaves of rich green color. Small plants are very desirable for centers in fern dishes.

Choice plants, about 10 inches high.

Each 75c, postpaid



Rubber Plant

Cocos Palm

DRACENA INDIVISA

(Fountain Plant.)—This plant is unsurpassed for hardiness. Leaves graceful, long, narrow and pointed. Used extensively for centers in pots, boxes or urns with other plants. Perfectly hardy outside in summer.

Nice plants, 12 to 15 in., 40c to 60c, postpaid. Specimens in pots, 18 to 24 in. and up, 75c to \$1.50 and up to \$2.50.



Aspidistra

Jardiniers

Fern Dishes

Fancy Vases Etc.

We stock a full line of standard, fancy and new styles Jardinieres, Flower and Bulb Pots, Japan Tubs, etc. See our stock before buying elsewhere.



Rex Begonia

REX BEGONIAS

Grown for the beauty of the foliage. The leaves are large, variegated and margined. Most varieties have a peculiar silver-metallic gloss. The most ornamental of window plants; also useful in vases, baskets and wardian cases. Prices—25c each; 3 sorts 65c.

(See Flowering Begonias, page 78.)

CANARY BIRDS

Did you ever hear an imported Hartz Mountain Canary sing? They are the sweetest singers on earth. (See pages 150 to 156.)

FLOWERING PLANT COLLECTIONS

On this and the two following pages we offer plant collections grown especially for our out-of-town customers. All orders for these plants are sent direct to the green house where they are gathered, packed and wrapped with special care so they will travel in safety by parcel post. Every plant is carefully labeled. Order any time; we'll send "In season."

Twelve Grand Single Geraniums

Price 20c each; set of 12 varieties, \$2.00 postpaid.

Albion.—Beautiful free flowering white variety as pure in color as driven snow. Always in bloom.

C. W. Ward.—Rich salmon shaded to orange. Large trusses on strong stalks. Magnificent zoned foliage.



Eugene Sue.—A rare shade of russet orange, the nearest to a yellow geranium.

Jacquerie.—Rich, vivid crimson; immense trusses. Excellent for bedding; blooms freely, stands the sun well.

Mad Chapotan.—Beautiful pink upper petals, marked with white; very pretty.

Madame Mosnay.—Peculiar shade of carmine lake shaded to violet and white.

Maxine Kavolenski.—Odd shade of orange red, very distinctive, splendid bedder, vigorous, handsome, a dependable sort.

Mildred Rival.—Pure rose-pink, with conspicuous white blotch on two upper petals; flower beautifully formed, and the largest of its color.

Mrs. E. G. Hill.—Very large trusses; color, clear salmon, with a white center; one of the finest varieties.

Mrs. A. Blanc.—Silver salmon, shaded peach; glistening texture.

Mme. Cibiel.—Light salmon flesh color bordered orange. Grand trusses of very large florets.

Nuit Poitevine.—Fine, large flowers, lower petals rich violet, bordered with scarlet, upper petals orange scarlet, very distinct.

Twelve Grand Double Geraniums

Price 20c each; set of 12 varieties, \$2.00 postpaid.

Abbie Schaefer.—Beautifully formed flowers of a rich crimson scarlet of velvety texture. A grand sort.

Alphonse Ricard.—Rich velvety scarlet, extra large and brilliant.

Edmond Blanc.—Deep carmine red tinged.

Madame Charlotte.—Rosy salmon shaded and reticulated with white; very distinct.

Madame Landry.—Rich bright apricot, shaded with orange, very large trusses. One of the best.

Madame Recamier.—Ivory white flowers in very large trusses. Strong, healthy grower.

Marquis de Castellane.—Rich solferino color. Immense trusses on strong stalks. Robust grower and very free blooming.

Mrs. Gladstone.—Snow-white shaded to flesh pink in center; superb fancy sort.

Mrs. Lawrence.—Lovely satiny pink shaded to white. Its delicate color is delightful. A grand bedding variety.

S. A. Nutt.—The best of the rich, dark crimson varieties; very popular.

Lady Washington Collection English Show Pelargoniums

These are commonly known as Lady Washington Geraniums. Like geraniums they flower during the summer months and are very ornamental either as house or bedding plants.

Price 35c each; set of 6 sorts, \$2.00 postpaid.

Countess.—Very large flowers of a distinct shade of cerise salmon color; upper petals splashed with maroon.

Crimson King.—Superb dark colored variety. Flowers rich crimson, blotched and feathered maroon. Very free flowering and easy growing.

Easter Greeting.—A new free blooming variety of the greatest merit. Flowers amaranth red with a well outlined maroon blotch on each petal. Blooms very large and in good-sized trusses.

Mabel.—Delicate light pink, upper petals feathered and blotched maroon. Elegantly fringed flowers of great substance.

Madam Vibert.—Of very sturdy growth, bushy habit and free blooming. Flowers bright red, blotched black and maroon and edged with light pink and white. One of the most admired.

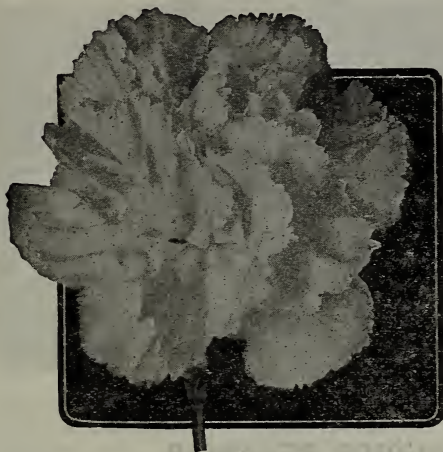
Fair Maid.—Delicate light pink shaded to white, with maroon blotch and crimson markings on upper petals. One of our finest sorts.

CARNATION PLANTS

For beauty, fragrance and abundance of flowers, for its hardiness, easy culture and adaptability to outdoor or indoor cultivation, no plant excels the ever-blooming Carnation.

Enchantress Collection Everblooming Carnations

Price, 20c each; 12 for \$2.00 postpaid.



We have selected the varieties in this collection with much pride to ourselves, believing that we are giving to our patrons a set of Carnations which for general planting cannot be excelled. All have flowers of large size, strong and healthy growth and very free-blooming qualities.

- Alice.—Delicate flesh pink, very sweet.
- Bonora.—White flaked with scarlet.
- Beacon.—A brilliant, deep scarlet.
- Enchantress.—A superb flesh pink.
- Herald.—Large, bright scarlet, fringed.
- Lady Bountiful.—Pearly white; fringed.
- May Day.—Soft pink with silvery sheen.
- Mrs. C. W. Ward.—Bright, glistening pink.
- Pocahontas.—Bright, rich crimson.
- Philadelphia.—Beautiful rose-pink, fragrant.
- Victory.—Intense scarlet, large, fragrant.
- White Enchantress.—A beautiful white.

QUEEN COLLECTION GIANT JAPANESE CHRYSANTHEMUMS

Price 15c each; sets of 10 sorts, \$1.25 postpaid.

Artistic Queen.—Fine exhibition variety. Extra large blooms, loosely incurved, very strong stem. Color, rose pink, very fresh and beautiful.

George Bruzzard.—A beautifully shaped bloom; bronzy red in color with reverse side of petals old gold.

Golden Eagle.—Large in size, perfect in form and a superb golden yellow in color.

Harvard.—Produces a good medium-sized bloom of the darkest shade of crimson.

Kitty Lawrence.—Lovely shades of cream and fawn. Large, very graceful formed flowers, with irregular tubular petals of fine substance.

Naomah.—Incurved white. Petals broad and incurving. Flowers of excellent substance.

Chieftain.—A beautiful broad-petaled, incurving variety, round and ruffled; one of the prettiest forms.

Ramapo.—An excellent variety. The heavy golden yellow, richly colored.

Mancato.—An enormous exhibition variety with perfectly double flowers. Color, rosy purple.

William Turner.—Pure white in color. It is enormous in diameter, deep in build and very perfect in form.



COUNTESS COLLECTION NEW ENGLISH GARDEN CHRYSANTHEMUMS

To those persons who have planted the late flowering sorts and failed to get them into bloom before frost, these new imported sorts will appeal. All will flower readily in the garden during September and October. Flowers not as large as the Japanese.

Price 15c each; full collection of 10 sorts, \$1.25 postpaid.

Carrie.—Bright golden yellow flowers in great profusion during September. Dwarf habit.

Cranford Pink.—Lovely silvery pink flowers of fine size, nicely incurved and very lasting. Fine for cut flowers.

Countess of Cariel.—A very free flowering sort of dwarf habit. Color, terra cotta and bronze. Rich and handsome.

Glory of Seven Oaks.—Deep golden yellow, very free flowering. Excellent dwarf habit.

Groachers Crimson.—Large handsome flowers of a rich shade of crimson. Blooms very early.

Leslie.—Light canary yellow. Covered with its pretty flowers early in the fall.

Mignon.—Rosy pink, shaded silvery. Strong, vigorous grower and very free.

Nina Blick.—Rich golden bronze shaded to yellow. Dwarf spreading habit and free flowering.

Normandie.—Delicate shell pink flowers of wax-like texture. Fine for cut flowers. One of the best of this type.

Queen of Whites.—Showy white flowers cover the plant early in the fall. A gem in the garden.

HARDY POMPON (Chrysthemums—See page 82.)

BOOKS—We call special attention to the Garden Guide, Milady's House Plants, Practical Landscape Gardening; we recommend them. See page 128.

BEAUTIFUL FLOWERING BEGONIAS

Price 20c each; full collection of 6 for \$1.00 postpaid.

Probably the most satisfactory class of plants for house culture obtainable. Of easiest possible culture; their waxy flowers produced in much profusion, together with their handsome foliage, make them most desirable subjects for the window garden.

Bertha Chaterocher. Covered all the year with bright scarlet flowers. Handsome green foliage. A fine house plant.

Dewdrop. Pretty ovate shining green foliage. Myriads of pure white flowers all the year. Never out of bloom.

Foliosa. The freest-flowering Begonia we have. Makes a handsome window plant; pink flowers.

Gloire de Chatelaine. Glossy green ovate leaves, flowers white heavily bordered with rose pink. A grand new variety from France.

Marguerite. Bronzy green, with purple cast; trusses of cream and rose-colored flowers.

Nitida. Glossy green leaves of wax-like substance. Clusters of pure white flowers produced freely for a great part of the year.

REX BEGONIAS.—See page 75.



Gloire de Chatelaine

BEAUTY COLLECTION CHOICE FUCHSIAS

This graceful class of plants make especially fine subjects for house culture as well as for planting in the garden. They are almost continuous bloomers and are very easily raised. The single varieties are the most floriferous, while the double sorts bear the larger flowers.

Price 15c each; collection set of 6 sorts, 75c.



Fuchsia

Annie Earle.—Tube and sepals waxy white, corolla single, clear carmine; plant splendid and free blooming.

Dr. Brooks.—Rich, dark blue corolla, with crimson sepals. A beautiful single variety, never out of bloom.

General Roberts.—Flowers very large, corolla plum color, tube and sepals crimson; one of the finest double varieties.

Little Beauty.—A dwarf growing double variety, producing with great freedom small flowers of great beauty. Purple corolla with scarlet sepals. A little gem.

Storm King.—Superb double white variety; tube and sepals bright scarlet; corolla large, double and waxy white.

Speciosa.—A winter-blooming variety of large size; tube and sepals blush, corolla bright crimson.

DOUBLE FRINGED PETUNIAS

Double Petunias make excellent bedding plants as well as being suitable for window boxes and tubs. The flowers are quite double, nicely fringed about three inches in diameter and are produced freely all through the summer months. We offer a set of six choice varieties.

Price 20c each; collection of 6 sorts for \$1.00.

Ceres.—Lovely mellow-rose color. Flowers finely fringed.

Dotty.—Beautifully variegated white and mauve pink.

Harold.—Pure white blotched with purple. Petals heavily lacinated.

Snowball.—A beautiful pure white sort with finely fringed petals.

Undine.—Large self-colored flowers. Color reddish purple. Very rich and handsome.

Venosa.—Pure white with blue suffusions and purple veins.

PETUNIA (Pride of Portland.)—A beautiful, free flowering single variety, fine for bedding and window boxes. Large fringed blooms of a soft, bright pink.

Each 20c; doz. \$2.00

PETUNIA (Elks' Pride.)—Another popular single flowered Petunia producing all summer large, rich, dark purple flowers in great profusion.

Each 20c; doz. \$2.00

La Grande, Ore., Sept. 6, 1919.
Routledge Seed & Floral Co.
Gentlemen: The Parrott I bought a year ago is the finest talker I have ever seen.

Yours very truly,
W. R. PACKER.

Oakland, Ore., Aug. 6, 1920.
Routledge Seed & Floral Co.
Dear Sirs: H. Q. Mixed Roller Bird Seed is the first seed that I have gotten that the birds eat up clean. None wasted at all.

I remain,
Yours truly,
A. LOGAN.

Read reports above and then look over Bird and Pet Department, pages 150 to 156.

GENERAL PRICE LIST OF ANNUAL BEDDING PLANTS



During April, May and June we have thousands of flowering and ornamental annual plants. "T" stands for transplanted plants from boxes. Write for 100 prices if interested.

BY MAIL.—If you add 3c each or 30c per dozen we will prepay charges on above plants excepting those from pots (3 inches or over), which cannot be mailed safely and must go by express, you to pay transportation charges. NO PLANTS SENT C. O. D.

For descriptions see Flower Seed Department of this catalog

	Each.	Doz.		Each.	Doz.
Agerantum—			Lobelia—		
Blue or mixed, T .....	.3	.25	Compacta or Trailing, T .3 for	.20	.50
Alyssum—			Marigolds—		
Sweet, T .....	.3	.20	African—Double orange yellow		
Anthirrhinum—			French—Double yellow marked		
Snapdragon, mixed T ....	.3	.30	with brown-red, Tall or		
Aster—			Dwarf .....	.3	.50
Giant Crego, white, pink, pur-			Pansy—		
ple or mixed, T .....	.3	.20	Choice plants, blooming age,		
Candytuft—			postpaid .....	.60	.75
Mixed or white, T .....	.3	.20	12 in a basket, Steel's Masto-		
Carnation—			dons in full bloom, by express		
Named varieties (see page 77)			only (charges collect) .....	.75	1.50
Chrysanthemum—			Petunias— (See collections, p. 78.)		
Named varieties (see page 77)			Single Ruffled Giants, or Dou-		
Cosmos—	Each.	Doz.	ble, mixed colors only .....	.10	.75
Red, pink, white or mixed, T .10		.75	From 3-inch pots .....	.25	2.50
Cobea Scandens—			From 4-inch pots .....	.30	3.00
From 2-inch pots .....	.20	2.00	Phlox—		
From 3-inch pots .....	.25	2.50	Drummondii, annuals mixed, T.		
Coleus—			3 for	.20	.60
Choice colors, 2-inch pots....	.20	2.00	Salvia (Scarlet Sage)		
Choice colors, 3-inch pots ....	.25	2.50	Splendens, tall T .....	.3	.20
Dracena Palm (Fountain Plant),			Zurich, a Fireball, new dwarf, T .10		1.00
(see catalog sizes, page 75.)			3-inch pots .....	.20	2.00
Geraniums— (See collections p. 76.)			4-inch pots .....	.25	2.50
Single or double varieties in			Stocks—		
scarlet, red, salmon pink,			Fine Mixed Colors, T ....	.3	.20
deep pink, light pink or white			Verbena—		
or Ivy Leaved trailing, pink			Fine Mixed, T .....	.3	.20
or red.			From 2-inch pots .....	.15	1.50
From 3-inch pots .....	.20	2.00	Vinca—		
From 4-inch pots .....	.25	2.50	Variegated, from small pots ...	.15	1.50
From 4-inch extra select			Variegated, from large pots ...	.25	2.50
plants in full bloom .....	.30	3.00	Zinnias—		
Pelegonium (Lady Washington)			Giant Mixed .....	.3	.25
(See collections, p. 76.)			Plant Tubs or Japanese Kegs		
From 3-inch pots.....	.35	3.50	Filled with large flowering plants and		
From 4 and 5-inch pots, spec-			vines; for porch or garden display.		
imens in bloom .....	.50	.75	Size 13-in. \$3.50 to \$5.00 with Dracaena center.		
Trailing Ivy— (For baskets and			Size 13-in. 3.00 to 4.00 with Daisy center.		
boxes.)			Hanging Baskets		
2-inch pots .....	.15	1.50	Filled with large flowering plants and		
3-inch pots .....	.20	2.00	vines.		
Heliotrope—			Size 10-in. \$2.00 to \$2.50 (Cannot be		
Blue, T .....	.3	1.00	Size 12-in. 3.00 to 3.50 shipped safely)		
Blue, 3-inch pots .....	.20	2.00			
Blue, 4-inch pots .....	.25	2.50			

Note.—"T" stands for transplanted plants growing in flats or boxes.

REMEMBER, we are not offering you little seedling plants, pulled from the seed beds. Our plants are strong, healthy, transplanted plants from flats or pots, raised from our HIGHEST QUALITY SEED or propagating plants of SUPERIOR MERIT.

LANTANAS—Annual Flowering Bedding Plants

Lantanas are showy bedding and basket plants that are being used more extensively than ever. They are strictly ever-bloomers, flowering continually from early summer until frost cuts them down in the fall. They withstand the hottest sun and dry weather remarkably well.

Price, 20c each; \$1.50 per doz.; collection of 6 sorts \$1.00 postpaid.

Ameil.—A beautiful dwarf growing variety, among the very finest of bedding plants. Grows eight inches high. Covered all summer with umbels of little florets red on the outer edge and orange-yellow in the center. A little gem for bedding.

Courbeille d'Argent.—A free blooming pure white sort; dwarf and compact grower; never out of flower.

Iolande.—Rich colored umbels, a beautiful mingling of crimson, orange and yellow. Fine robust grower and free bloomer. Very showy sort.

Delicatissima (The Weeping Lantana.) In addition to being a fine bedding plant, its prostrate habit makes it also a fine basket and vase plant. Pretty umbels of rosy-lilac flowers all season.

Jaun d'Or.—Large umbels of light sulphur yellow flowers changing to a beautiful shade of pink. One of the most distinct and beautiful varieties we have seen.

Leo Dex.—A gorgeous combination of crimson-violet and bronze. Nothing in bedding plants reaches this in gorgeous coloring.

PRIMROSE GIANT OBCONICA

This is the freest flowering pot plant, blooming throughout the entire season, often having from 15 to 20 sprays of large lavender flowers on stems 10 to 15 inches high at one time, lasting in bloom fully four weeks without fading, continually sending new sprays all over the plant, making it one of the most desirable plants for the house ever introduced. Prices, 25c each; extra large plants 40 to 50c each postpaid. Large plants in full bloom, October to May; by express only. Each \$1.00 to \$1.50.

CALLA LILIES

The Calla is one of the best winter flowering plants for room culture, needing little care beyond abundant water and an occasional washing of the leaves to keep them free from dust. Plant 1 bulb in a 6-inch pot. As soon as it starts growing bring to the light and heat and the result will be most satisfactory.

WHITE CALLA—The most extensively grown; bulbs in season from September to May. Choice bulbs, 25c; large 30c Extra large 35c; 3 for \$1.00

NEW GODFREY—Plant is more dwarf in growth; flowers lily white, very graceful and produced in astonishing numbers; come into flower quicker; will also do well in the garden for summer flowers. Each 35c; 3 for \$1.00

YELLOW ELLITIANA—This new Yellow Calla is of marvelous beauty; flowers are large, rich, dark golden yellow, often 4 to 5 inches across the mouth; leaves are beautifully spotted with white. Bulbs in stock from November to May. (See cut.) Select bulbs, each 35c; 3 for \$1.00

AMARYLLIS

These hardy flowering bulbs are very popular for pot culture and garden. Their giant, Lily-like flowers produced on tall stems are exceedingly rich and lasting. For pot culture, 1 bulb to a 6-inch pot. In the garden, plant 1 foot apart and cover bulb about 4 inches.

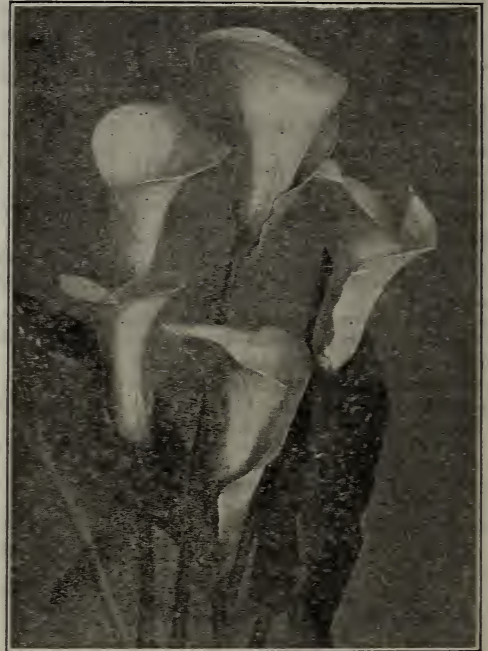
DEFIANCE.—Wide open flowers of rich crimson scarlet, lined and penciled white and maroon. Blooming bulbs. Each 50c

TUBE ROSES

A very desirable and most easily grown summer flowering bulb. Easily recognized by its exquisite fragrance and beautiful spikes of white flowers, which are borne on long stems, making it an admirable cut flower for house decoration. If started in pots and then transplanted to open ground, can be had much earlier. For flowering in the open border, plant in the spring after the ground becomes warm.

Excelsior Dwarf Pearl—select bulbs.

Each, 10c; doz., \$1.00



Yellow Calla Lily

BELLA DONNA.—One of the most satisfactory, bearing on long stems clusters of 8 to 10 superb, large, beautiful pink, Lily-like flowers with a delightful fragrance. A fine fall bloomer. Each 35c

BEAUTIFUL HARDY LILIES

These are the most fragrant, beautiful and stately of all flowers produced from bulbs; they require very little care. Do not disturb them oftener than every three to five years. Plant about six to twelve inches deep, according to size of bulb, and if the ground is not well drained use plenty of sand around the bulb, and lay it on its side. Plant in clusters or groups of six or more for best effect. They increase in size and beauty each year.

LILIUM CANDIDUM (St. Joseph or Madonna Lily.)—This is the ever popular, fragrant, snow white, hardy garden Lily. The large, trumpet-shaped flowers are produced in clusters at the top of 4 to 5-foot stems; blooms in the open ground in June. A very hardy and popular Lily. Planted in beds or among shrubbery it makes a stately, majestic display.

Mammoth Bulbs: Each 50c
Large. Each 35c; 3 for \$1.00; doz. \$3.00
Small Bulbs. 25c each; doz. \$2.50

LILIUM WASHINGTONIANUM (Mt. Hood Lily.)—A beautiful Lily, native of Oregon; flower of open trumpet form; white, tinted with lavender pink; grows 3 to 5 feet high; the beautiful fragrant flowers are freely produced in graceful clusters. Few Lilies surpass it and it deserves to be planted much more extensively. Our bulbs are gathered in the foothills of Mt. Hood and grown one year in nursery rows. This makes them firmer, bloom more freely and sure to live.

Each 25c; 3 for 60c; extra large bulbs 35c; 3 for \$1.00.

Easter Lily

Pure pearly white, deliciously fragrant, and a remarkable profusion of bloom characterize this charming and celebrated Easter Lily. Without exception, it is one of the most valuable bulbs for winter flowering in the house. It is a magnificent variety for church decoration at Easter, and tens of thousands are grown for this purpose alone. Our bulbs are the best obtainable. Popular flowering size.

Each 35c; 3 for \$1.00
Extra large bulbs 40c



Lily of Valley

NOTE.—The supply of Lily Bulbs is very short. Order early.



Lily Auratum

Superbum.—Grows 3 to 5 feet high, producing from 5 to 40 nodding brilliant orange red blooms in July. Each 30c

Auratum.—The gold-banded lily of Japan. Immense flowers, borne in great clusters; color, rich, creamy white, thickly spotted with crimson and brown, each petal having a golden yellow band through the center. (See cut.) Each 35c

Speciosum Rubrum.—Flowers white, with a deep pink band in middle of each petal and numerous crimson spots towards the center of the flower. Each 30c

Monstrosum Album.—Similar to Speciosum Rubrum in growth and bloom except that the flowers are pure glistening white. Each 35c

Tigrinum Flora Plena.—The double-flowered Tiger Lily. Bright orange colored flowers. Each 35c

Lily of the Valley

One of the most charming spring flowering plants, producing in profusion its delicate bell-shaped, delightfully fragrant white flowers. Valleys thrive in any common soil, and will do well in shady situations, where few other plants will succeed. Highly prized for cutting purposes, and exceedingly well adapted for flowering in pots in the winter. Plant 6 pips to a 6-inch pot.

They are perfectly hardy and most charming planted in beds or borders around the lawn, where they can remain, increase and bloom from year to year.

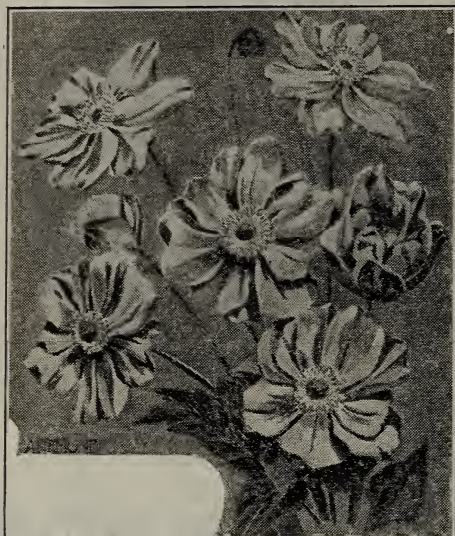
SELECTED PIPS, for forcing indoors or planting outside. 4 for 25c; doz. 75c; 100 \$5.00

HARDY PERENNIAL FLOWERING PLANTS

No class of plants enjoy greater popularity at the present time than the Hardy Perennials. They have made rapid strides into public favor the past few years, until now they may be considered to have a prominent and a permanent place in our American gardens. Once planted they require very little care, increasing in size of plant and profusion of bloom from year to year. Most varieties can be taken up, divided and reset every third year.

LARGE STOCKS—LOW PRICES.—We are in a position to supply unlimited quantities at special prices and you will find our plants are strong and well rooted. Our prices must not be compared to Eastern lists, for our plants are all hardy, field grown, worth double the average stock sold. Limited space will not permit us to list all varieties we can supply. Ask for any special varieties wanted.

PRICES.—All prices postpaid—10 times the each price is dozen price. Express, freight and call orders 25c less in dozen lots.



Anemone

Anemone

JAPANESE.—These beautiful Windflowers are one of the most important hardy plants. They begin blooming early in August and continue in full beauty until cut down by hard frost. Excellent for bouquets, lasting for days when cut; 2½ to 3 feet.

Whirlwind.—Best large pure white.

Alice.—Lovely flowers, beautiful pink.

Prince Henry—Red; large, free flowering.

Each, 35c; collection of 3 kinds, \$1.00

ACONITUM

(Monkshood or Helmet Flower.) *Napellus*—Large dark-blue flowers, 4 ft. high, invaluable for semi-shady places. Each 25c

Anchusa

Italica.—(Dropmore variety.) New. The bright blue Forget-Me-Not like flowers are clustered on graceful stems during the entire season and way late into the fall; 3 feet. Each 25c

Alyssum

Gold Dust (*Saxatile Compactum.*)—Large heads of golden yellow flowers in May and June; silvery foliage; fine for rockeries; 10 to 12 inches. Each 25c; 3 for 65c

Arabis

Rock Cress.—One of the most desirable of the very early spring flowering plants for edging and the rock garden. Forms a dense carpet, completely covered with pure white flowers; 6 inches. Each 25c

Aquilegias

(Columbines)

The Columbines are one of the most elegant and beautiful of hardy plants, producing their graceful spurred flowers on stems rising two feet or more above the beautifully divided foliage, and are highly prized for cutting; June to September.

Mixed.—Very choice. Each 30c; 4 for \$1.00

Asters—Hardy

Popular and free flowering, fine for cutting or mass effect. We have eight varieties, in shades of rose, blue and pink; dwarf 12 to 15 inches, tall 3 to 4 feet.

Favorite.—Violet pink.

Abendroete.—Glowing red.

Climax.—Light yellow.

Subcoerulea.—Blue.

• Each, 30c; collection of 4 kinds, \$1.00

Coreopsis

Lanceolata Grandiflora.—Popular hardy plants. The flowers are a rich golden yellow, of graceful form and invaluable for cutting; the main crop comes during the latter part of June, but it continues in bloom the entire summer and autumn; it succeeds everywhere; 1½ feet.

Each 25c; 3 for 65c

Canterbury Bells

(*Campanulas*—or Bellflowers)

One of the most popular hardy garden plants on account of the beautiful clusters of long-stemmed, dainty yet large flowers. They are very showy. The "*Calycanthema*" are only "biennials."

PERSICIFOLIA (Peach Bells).—Large clusters of drooping bell-shaped flowers during June and July; 3 feet.

Blue or White.

Each 35c

CALYCANTHEMA (Cup and Saucer Canterbury Bells).—A beautiful form of this favorite flower.

Blue, Rose or White. Each 30c; 3 for 75c

Chrysanthemums

They produce a lavish profusion of blooms after most flowers are gone; very popular.

Hardy Pompons.—Small ball-shaped flowers.

Strong Field Grown Plants in Yellow, Bronze, Pink or White. Each 35c

Eva.—Pure white. **Fairy Queen.**—Light pink. **Golden Climax.**—Golden yellow. **Julia La Gravere.**—Velvety crimson.

Each, 20c; collection of 4 kinds, 75c

FEED YOUR PLANTS.—You must supply "food," in other words fertilizer, if you want the best results. Read about "Wonder" and "C-M," pages 38-39.

HARDY PERENNIAL FLOWERING PLANTS—Continued

NOTE.—25c plants are \$2.50 doz.; 30c, \$3.00 doz. See note top page 82

Delphinium

(Hardy Larkspur)

These are deservedly one of the most popular subjects in the hardy border, bold, attractive and highly prepossessing plants of easiest culture; perfectly hardy; 3 to 4 feet. Fine for cut flowers, June to November; when the first blooms are faded, cut all foliage close to the ground and a second crop will come. (See cut.)

Choice Mixed, all shades.

Each 25c; \$2.50 doz.

Gold Medal Hybrids.—Unquestionably the finest strain of hybrids from the best named varieties. Very large flowers in mostly light, beautiful shades. Each 35c; doz. \$3.50

Moerheimi.—A new and continuous bloomer; pure white; 5 feet tall. Each 50c

Belladonna.—A free and continuous bloomer; flowers clear turquoise blue; very beautiful; long flower spikes. Each 30c



Dicentra—Bleeding Heart

Dicentra

(Bleeding Heart)

An old-fashioned favorite; its long racemes of graceful heart-shaped pink flowers are always attractive. Perfectly at home in any part of the hardy border, and especially valuable for planting in the shade. Each, small 50c; large 60c and 75c; very scarce

Digitalis

(Foxglove)

Old-fashioned, hardy, desirable plants with broad foliage and showy flowers borne on spikes. June and July; 4 to 6 feet.

Mixed colors. Each 25c

Doronicum

One of the most effective and very early spring flowering perennials, growing about 2 feet high, producing a profusion of Marguerite-like golden yellow flowers of much beauty and elegance. It is a splendid flower for cutting. Each 30c

Dianthus

Deltoides (Maiden Pink).—A charming creeping variety, with medium-sized pink flowers in June and July; especially suited for the rock garden or borders. Each 30c



Delphinium (Plant and Flower Spike)

Forget-Me-Not

(Myosotis)

Palustris.—A variety that is hardly ever out of flower; useful in a shady spot in the border. Each 30c; 3 for 75c

Gaillardia

(Blanket Flower)

Among the showiest and most effective of perennial plants, blooming continually from early summer on through the season. Grows 2 feet high. Flowers about 3 inches across, dark red in center with rings of crimson and vermilion encircling same on a golden yellow ground.

Grandiflora. Each 30c; 3 for 75c

Geum

A showy border plant, growing about 18 inches high and producing all summer and fall brilliant double scarlet flowers in large clusters. This new variety is a fine advance from the older sorts heretofore grown. We consider this the finest red hardy plant.

Mrs. Bradshaw.—Double. Each 35c; 3 for \$1.00

Heldreichi.—Single red. Each 25c; 3 for 65c

Gypsophila

(Baby's Breath)

Fine, delicate foliage. Minute white flowers borne in enormous quantity in open panicles during summer months. Be sure and have a few plants of this for cutting, as it works up beautifully in bouquets of other flowers; 3 to 4 feet.

Paniculata. Each 35c

Hemerocallis

Lemon Lily.—Three feet; May and June. Flowers very fragrant; fine for cutting. White or Yellow. Each 30c

FOR BEST RESULTS, plant these hardy perennials in the fall or early in the spring before new growth gets too far advanced.

HARDY PERENNIAL FLOWERING PLANTS—Continued

NOTE.—25c plants are \$2.50 doz.; 30c, \$3.00 doz. See note top page 82

Hollyhocks

Stately, majestic, hardy plants, necessary to every old-fashioned garden. Their large, brilliant flowers are very showy. Rich soil, plenty of water and a spraying of "Bordeaux" should they show rust or mildew, will grow them to perfection; 6 to 8 feet.

Double Mixed. Each 30c; 4 colors \$1.00

Hypericum

(St. John's Wort)

Moserianum (Gold Flower)—Of drooping, training nature. Fine for rockeries, etc. Free flowering. Rich golden-yellow; June to frost. Each 35c; clumps 50c to 75c

Phlox

Among the hardy perennial plants no class is of more importance than the Phlox, succeeding in almost any soil and position, and flowering through a long season. Excellent for cutting and decorating or for mass effects. Keep well in water.

STANDARD COLLECTION

A choice collection of standard varieties. Our selection 25c each; 8 sorts \$1.75

Novelty Collection

New, rare and rich; flowers of largest and best types; very choice.

Your choice. Each 35c; 1 plant of each variety (8) \$2.25 postpaid.

Asla.—One of the most valuable recent introductions, a delicate shade of mauve, with a crimson carmine eye. Very free blooming.

Europa.—A white variety with very decided crimson carmine eye; the individual flowers as well as the trusses are very large, entirely distinct.

Elizabeth Campbell.—Very bright salmon pink with lighter shadings and dark crimson eye; an entirely new and much wanted shade in Phlox.

Frau Anton Buchner.—The finest white variety yet introduced, having the largest truss and individual flower; of dwarf habit.

General Von Heutzze.—Immense trusses of very large flowers; color, the most brilliant salmon red imaginable. Simply grand.

Le Mahdi.—Immense panicles of deep velvety purple flowers. Very rich and striking.

Rynstrom.—An improved form of the popular variety Pantheon; fine for massing, of a Paul Neyron Rose color.

Sir Edward Landseer.—Rich bright crimson flowers in large panicles; 3 feet high. A rare and beautiful variety.

Creeping Phlox

Subulata Alba (Moss Pink).—An early spring flowering type with pretty moss-like evergreen foliage, which hides the ground. Covered with pretty white blossoms. Excellent for bordering, rockery and grave planting. Each 25c; 3 for 65c

Subulata Rosea.—Like the above, but with beautiful pink flowers.

Each 25c; 3 for 65c



Phlox Decussata

Poppy

Oriente.—Very large flowers; bright red with a black blotch at the base of each petal. June to July; 3 feet. Each 30c

NEW ORIENTAL POPPIES

Fine subjects for massing or planting singly in the hardy garden. We offer five new kinds recently brought from England.

Each 40c; set of 4 sorts \$1.50

Gerald Perry.—Large flowers of a beautiful apricot pink, conspicuously blotched crimson.

Goliath.—Fiery crimson scarlet with black blotches at base of petals; very large.

Lady Frederick Moore.—Clear, light salmon, prominent black center; of fine size.

Perry's White.—Large, pure-white flowers of satiny texture. Large crimson blotch at base of each petal. The rare new variety.

Nudicaule (Iceland Poppy).—A beautiful class of hardy poppies. Flower stems about a foot in height, bearing elegant cup-shaped flowers, ranging in color from white to scarlet, but most valuable in the yellow and orange shades. Valuable for cut flowers, lasting well when cut.

Mixed All Colors, each 25c; doz. \$2.50

English Primroses

Deans Hybrids.—Pretty low growing plants bearing large numbers of beautiful flowers very early in the spring and having the old-fashioned cowslip fragrance so dear to the heart of every Englishman. The flowers are in a wide range of rich colors from golden-yellow to deep crimson maroon.

Each 25c; 3 for 65c

FEED YOUR PLANTS.—You must supply "feed," in other words fertilizer, if you want the best results. Read about "Wonder" and "C-M," pages 38-39.

PRICES.—All prices postpaid—10 times the each price is dozen price. Express, freight and call orders 25c less in dozen lots.

Pyrethrum

(Persian Daisy)

One of the most valuable of our early summer flowers. Charming shades of color, and wonderful lasting properties as a cut flower. They flower in May and June and frequently in August and September the second time; the colors run into almost every shade, which makes them foremost of plants in this particular season.

Hybridum.—Mixed colors.

Each 25c; 3 for 65c

Rudbeckia

(Golden Glow)

Flowers beautiful golden-yellow; very double. Marvelous continuity of bloom from June till late fall; 6 to 8 feet.

Small plants 25c; large 35c

Saxifraga

Umbrosa (London Pride).—A low-growing, spreading sort, throwing up stems a foot high of pretty pink flowers in dainty clusters. Small, dark evergreen leaves, a fine border plant or for rockeries.

Each 20c; doz. \$2.00

Shasta Daisy

Very large daisy-like flowers, often measuring 4 to 5 inches across, having three or more rows of petals of the purest white. Flowers produced in great profusion on long strong stems. Very popular; 2 to 3 feet.

Each 25c; clumps 40c to 50c



Shasta Daisy

Scabiosa

Caucasica.—A choice hardy plant thriving in any situation and producing fine umbels of beautiful lavender colored flowers all season through. Flowers very lasting, admirably adapted for cut flower purposes. Grows 18 inches high. One of the finest perennials.

Each 25c; 3 for 65c

Stokesia

Cornflower Aster (Cyana.)—Handsome lavender-blue cornflower-like blossoms which measure from 4 to 5 inches across. Destrable as a single plant or grown in beds 18 to 24 inches high, June to September.

Each 30c

Sweet Williams

One of the fine old-fashioned hardy plants which has of late years been greatly improved in form and habit. Produces splendid effects when massed in beds or interspersed with other plants and shrubs. They grow about eighteen inches high and are at their best during June and July.

Each 25c

Tritoma

(The Everblooming Flame Flower)

Pfltzerei.—Blossoms from August to October, with spikes 3 to 4 feet high, and heads of bloom of a rich orange-scarlet, producing a grand effect either planted singly in the border or in masses.

Each 35c; Clumps 75c

Valeriana

Garden Heliotrope.—Decorative plant for the rockery, with strong heliotrope odor.

Coccinea Rubra.—Rose-pink flowers; blooms in May; 2 feet high.

Each 25c

Veronica

Rupestris.—A fine rock plant, growing 3 or 4 inches high, thickly matted deep green foliage, hidden in spring under a cloud of bright blue flowers.

Each 30c

Vinca

Myrtle (Minor).—An excellent dwarf evergreen trailing plant used extensively for carpeting ground under trees and on graves. Small dark-green leaves.

Each 25c; doz. \$2.50

Violets

Price, 20c each; collection \$1.00.

Of all the delightful perfumes, that of the Sweet Violet is the most delicate and pleasing, and places this modest flower among our greatest favorites. They commence to bloom as soon as the cold weather comes in the fall and flower even more profusely in the spring.

Alaska.—Hardy and robust and producing in spring great masses of enormous double flowers of a deep blue black color and powerful fragrance.

Lady Hume Campbell.—Large double flowers of a beautiful light-blue color. Very free blooming.

California.—Very showy and beautiful flowers; enormous size, deep-violet blue, and extremely fragrant.

Princess of Wales.—Flowers single, of gigantic size; color, a very rich shade of blue.

Peacock.—This is a charming variety and pleases everyone. It has lovely flowers of white, shaded with light blue.

Swanley White.—The finest and best double white violet in cultivation.

Wall Flower

Double English.—A fine old hardy garden plant seen in every English garden. Grows about 18 inches high and produces early in the spring, rich colored spikes of bloom in various shades of yellow and brownish red.

Yellow or Red.

Each 30c

Mixed.

Each 25c; 3 for 60c

Yucca—See Page 102

FOR BEST RESULTS, plant these hardy perennials in the fall or early in the spring before new growth gets too far advanced.

CHOICE HERBACEOUS PAEONIES

Fine, hardy plants, rivaling the Rose in perfection of bloom, color and fragrance. They are at home in any climate or soil, but thrive best in deep, rich, well drained loam. They make a gorgeous display. The Paeony is perfectly hardy. Plant in the fall or early spring and do not cover the crown of the roots over 2 or 3 inches.

OTHER VARIETIES.—We can quickly supply from the largest Western paeony specialist any variety from his list of over 250 kinds; so ask for price on any variety you wish.

Every variety in the following collection is a beauty. **PRICES** are postpaid.

NOTE—(1) blooms early; (2) mid-season; (3) late.

BOULE DE NEIGE (1).—Flowers large, white, compact and quite full. Guards and center lightly edged or flecked crimson. A desirable and beautiful peony. Each \$1.00

DUCHESS D'ORLEANS (2).—Beautiful, large, double flowers on long stems. Color, light pink, with a salmon-cream center. Early. A profuse bloomer and healthy grower. Each 75c

EDULIS SUPERBA (1).—Beautiful, brilliant, deep pink, silvery reflex; large, well-formed, full flower on strong stem; blooms very early, usually by Decoration Day; lasts well; fragrant and good in every way. A much worthier sort than its price would seem to indicate. Each 75c

FELIX CROUSSE.—A wonderful, dazzling, ruby-red; very large, handsome, stately, full, globular flowers on long stems. Excellent for cutting and decorations. Each \$1.00

FESTIVA MAXIMA (1)—Enormous, full, double blooms; petals very broad; color pure white with an occasional carmine spot on the edge of the center petals; very vigorous grower; one of the best white Paeonies, early, fragrant. Each 75c

OFFICINALLIS RUBRA (1)—Medium-sized, deep crimson flowers, in great profusion. One of the oldest and best varieties; the earliest sort to come into bloom. This is the "piney" of your grandmother's garden and its color cannot be surpassed by any of its newer rivals. Always in bloom for Decoration Day and very popular cut flower on that day. Each 60c

OFFICINALIS ALBA (1).—Belongs to the same class as *Rosea* and *Rubra* and is the earliest white. When the flowers first open they show a delicate shell pink shade, but soon fade to a beautiful white. Each 75c

VICTOR HUGO (3).—Brilliant carmine-red. Large, full, round flowers on good stems. Very showy and a most desirable variety. Each \$1.00



Paeony—Festiva Maxima

GOLDEN HARVEST (2).—Beautiful and graceful, creamy-yellow flowers, having guard petals heavily suffused with pink. Fragrant. Should be in every collection. Each 75c

Japanese Paeonies

This class of Paeonies is much admired by all who see them. They are of a distinct type, midway between the single and double; graceful and pretty. Try this collection of 3.

CASCADE.—A large pure-white, resembling a beautiful water lily; very distinct; quite rare, and should be in every collection. Each \$1.50

DAYBREAK.—A very handsome variety; beautiful pink, center filamental petals yellow. Each \$1.00

SUNRISE.—Crimson, center filamental petals tipped yellow; large and free bloomer. Each \$1.00



Giant Darwin and Cottage Tulips

For the open ground. Frost or freezing does injure them if in the ground, therefor plant early. They bloom in May.

The flowers of this superb class may well be called "The Tulip Aristocrats." The remarkably brilliant coloring and splendid substance of their large globular or cup-shaped flowers, their long, strong stems and robust growth of plant, make them unsurpassed for May Blooming in the garden. They are ideal for cutting and for borders, beds or planted in small groups among shrubs they are unsurpassed, as they improve in size and perfection from year to year. This class of tulips will do well planted as late as March 15. After this date orders will be held until fall.

SUPERB COLLECTION of 6 choice named kinds, 1 each (6), 60c; 3 each (18), \$1.50; 6 each (36), \$2.75 postpaid, per 100; 1 or more kinds, \$6.50.

GRAND MIXTURE—All colors, 3 for 25c; doz, 75c; 100, \$6.00, postpaid.

HOLLAND BULBS.—Our complete Bulb Catalog for Fall of 1921 ready for mailing about September 1. Write if you would like copy.



Japan Iris.

JAPAN IRIS—KAEMPFERI

The Japanese Iris is quite distinct from all others, and never fails to excite the admiration of all who see it. It is becoming more popular each year. The enormous flowers produced in June and July display a marvelous blending of rich and rare shades. They like a rich soil and plenty of water when in bud and flower. Doubles have six petals, singles three.

BEAUTY COLLECTION

Each 35c; \$3.50 doz. Collection of 5 kinds as follows, \$1.60 postpaid. (Roots in season from October to April):

Gei Sho Ui.—Rich purple, primrose blotches surrounded by a white halo radiating out into the purple petals; six petals.

Gekka No Naml.—Dense pure white, with yellow blotches; six petals.

Kuro Kumo.—Purple, overlaid with dark blue; six petals.

Shigano Ura Naml.—Red-lavender, with white halo surrounding the yellow blotches; six petals.

Shiratakl.—A large fine white; six petals.

Fine Mixed Japanese

Finest sorts, double and single.

3 for 75c; doz. \$2.50

BIRDS AND PETS

We are Northwestern headquarters for Birds of all kinds, Puppies, Kittens, Rabbits, Cavies, etc., Bird Cages, Pet Stock Foods and Supplies. SPECIAL PET STOCK CATALOG ON REQUEST.

LIBERTY IRIS—FLEUR-DE-LIS

These are among the most desirable and easiest grown of our spring flowering hardy plants, producing in May and June their showy flowers of exquisite coloring, combining the richest and most delicate tints. Roots from October to April.

1921 LIBERTY COLLECTION

Each 25c, except those priced higher. Full collection of 10 kinds, \$2.60 postpaid.

Florentina.—Creamy-white, with a lavender tint; sweet scented and an old favorite.

Fritjof.—Standard soft lavender; falls soft purple, shaded lavender. Very free bloomer.

Kochll.—Rich claret-purple. One of the most popular of this group.

Prince Victor.—Standard blue; falls dark violet. Very free, early bloomer and a favorite with the florists.

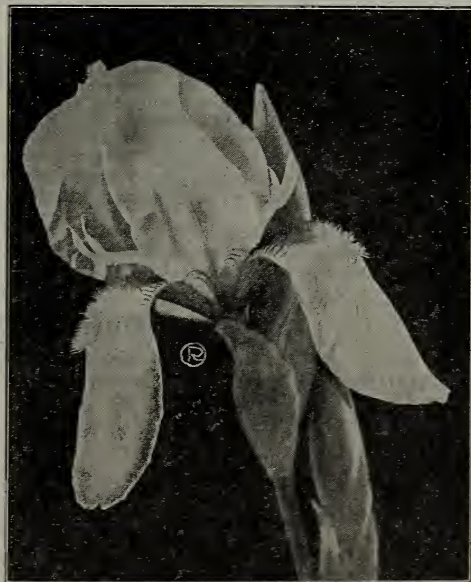
Flavescens.—Delicate shade of soft yellow; large, sweet-scented flowers. Fine for massing or cutting. Each 35c; doz. \$3.50

Gracchus.—Standard primrose; falls crimson, reticulated white. Each 30c; doz. \$3.00

Honorabilis.—Standard golden; falls rich mahogany-brown.

Madame Chereau.—Standard white, frilled blue; falls white, bordered blue.

Plant more Iris, they increase in size and beauty each year. Divide the roots in the fall each third or fourth year and reset.



Fleur de Lis (Liberty Iris)

Pallida Dalmatica.—Standard fine lavender; falls clear, deep lavender; flowers very large and fine. Each 35c; doz. \$3.50

Siberica Blue King.—Handsome, clear, blue flowers.

*Usk, Wash., April 17,
Gentlemen: I received my order in splendid shape last week and am much obliged.*

Yours truly,

MRS. LEWIS LaFORCE.

CANNAS

Everyone knows the value and beauty of Cannas for bedding. Their large, massive tropical looking leaves and magnificent flowers cannot be equaled in any other plant, of such easy culture. Plant outside after danger of frosts is past, 18 inches apart, in rich, deeply dug, well-prepared bed (12 plants required for a 6-foot circular bed). Plant the taller kinds in the center.

While there are many varieties of Cannas, we offer only the "very select"; they can be depended upon to be the most showy and desirable, with giant flowers, elegant foliage and especially adapted to Western conditions.

PLANTS IN SEASON—(After danger of frost.) Plants give quicker and better results than dormant roots. We send out growing plants only.

Our 1921 Collection New Cannas

Prices, 35c each; \$3.50 per dozen postpaid.

Firebird.—Flowers in immense trusses well above the foliage on tall stalks. Petals of great breadth and substance forming a magnificent flower. Color clear brilliant scarlet without streaks, spots or blotches. Grows five feet high. A wonderful variety.

Gladioflora.—Orange pink with dashes of golden yellow on each petal. Distinct yellow, throat mottled with pink. Beautiful; 3 feet.

Gladiator.—Golden yellow netted and spotted with orange scarlet. A popular bedder. Very handsome; 4 feet.

Hungaria.—Immense spikes of bloom of a beautiful light pink color. Fine leathery leaves of massive proportions. A glorious bedding variety; 3½ feet.

Indiana.—Giant flowers of soft orange lightened by flecks of gold, penciled and slightly margined with deep rose; 4 feet.

Juanita.—A grand new bronze-leaved Canna growing to over four feet high and producing fine trusses of finely formed flowers. Color bronzy-orange and chrome-yellow. A wealth of color for bedding purposes.

Louisiana.—Beautiful and showy; green leaves edged bronze, strong and healthy; very fine bloomer. The mammoth flowers are of fine form and a vivid scarlet; 5 feet.

Niagara.—Grows 3 feet high; large green foliage. Flowers very large, deep rich crimson, widely bordered with golden yellow.

Rosea Gigantea.—Deep, rich, dark pink, shaded to coral. Immense spikes of bloom in great freedom; 4 feet.



Canna Plant Well Grown

Yellow King Humbert.—Immense spikes of golden yellow flowers spotted in throat with scarlet. Massive green foliage. A grand variety; 5 feet.

King Humbert Collection of Cannas

Prices, 25c each; \$2.50 per dozen postpaid.

David Harum.—Foliage dark, glossy bronze and plum; great bloomer; flowers orange-scarlet, spotted vermilion; 4 feet.

General Merkel.—Large spikes of bright scarlet flowers suffused with orange; golden yellow marbling in throat of each floret. First-class bedding variety; 4 feet.

King Humbert.—Immense spikes of bloom of a bright orange scarlet streaked with crimson. Magnificent bronzy-green leaves with brownish-green stripes; large, bold and effective; 5 feet.

J. D. Eisele.—Bright vermilion scarlet, overlaid with orange. Large spikes of bloom well above the handsome green foliage. A fine bedding sort; 4½ feet.

Mrs. Karl Kelsey.—Orange scarlet flowers, flashed with stripes of golden yellow and tinted with rose. One of the most beautiful sorts in our collection; 4½ feet.

Queen Charlotte.—A bright orange scarlet, deeply edged with bright canary-yellow. The plant is of dwarf habit, with flowers from June to October.

CANNA BEDS.—Set plants 18 to 24 inches apart; 12 plants will make a six-foot bed. Circle them with *Salvia*, then edge with *Lobelia* (see *Bedding Plants*, page 79), and you will have a wonderful effect.

NOTE—A sack or two of "C-M" in the Canna Bed will do wonders towards making elegant growth and magnificent flowers. See page 39.

ROUTLEDGE'S SUPERB GLADIOLI BULBS

Plant 4 to 6 inches deep and as close as 6 inches in beds or borders or among the roses or shrubs. Planted at intervals from very early spring until July 1, they will give a profusion of flowers until the first frosts. ALL PRICES POSTPAID.

HIGHEST QUALITY BULBS.—Remember, the Gladioli Bulbs we offer are REAL "TOP" SIZE, healthy, vigorous and free of disease, Western grown and worth double most Eastern or imported stock.

AMERICA.—Conceded to be one of the finest varieties for cutting or bedding ever sent out; color, a beautiful soft flesh pink. 3 for 25c; doz. 75c; 100 \$5.00

BALTIMORE.—Lovely flowers of immense size; color, light salmon, throat cream, marked with deep salmon. A wonderful flower. Try it.

Each 20c; doz. \$1.75

BARON HULOT.—Long, graceful spikes of good-sized, well opened flowers, having a rich indigo-blue color. It stands alone as a unique and beautiful shade, and never fails to attract attention.

Each 15c; doz. \$1.25

CRACKERJACK.—Rich velvety dark red, golden throat; a large and very beautiful flower.

Each 15c; doz. \$1.25

GLORY OF HOLLAND.—Excellent white, red penciled throat; lovely flowers; very popular. Free bloomer.

Each 15c; doz. \$1.25

HALLEY.—Clear coral, enhanced by pale yellow markings in the throat. One of the most beautiful, regardless of price; early.

Each 10c; doz. \$1.00

MRS. FRANCIS KING.—Very large, open flowers of great merit; light scarlet or flame color.

3 for 25c; doz. 75c; 100 \$5.00

MRS. FRANK PENDLETON.—Tender pink with a crimson velvet blotch on lower petals. Flowers of elegant form and very beautiful; nothing finer.

Each 15c; 3 for 40c; doz. \$1.50

MRS. WATTS.—A beautiful clear wine red. A most pleasing shade.

Each 15c; doz. \$1.50

NIAGARA.—A delightful cream shade, blending to canary yellow, splashed with carmine. Enormous blooms.

Each 15c; doz. \$1.50

PEACE.—Massive, strong growing, stately white, with lilac feathering in throat.

Each 15c; doz. \$1.50

PANAMA.—Soft deep pink, showing in the sun a silver-frosted effect; beautiful at night.

Each 15c; 3 for 40c; doz. \$1.25

PRINCIPINE.—Crimson with white throat; nothing will brighten your garden more effectually.

Each 10c; doz. \$1.00

ROUGE TORCH.—A charming French variety. Creamy petals and crimson throat. Stems slender and graceful. A lovely combination of colors and very beautiful.

Each 15c; doz. \$1.25

SCHWABEN.—Magnificent, clear creamy yellow immense flowers, with petals like wax; most charming. Do not fail to plant this one.

Each 15c; 3 for 40c; doz. \$1.25

MIXED GLADIOLI BULBS

GOLD MEDAL MIXTURE.—This mixture is composed of all large and up-to-date varieties and our customers can depend upon having a large and magnificent variety of beautiful colors.

Strictly first-size bulbs.

3 for 25c; doz. 85c; 100 \$5.00

CHOICE MIXED.—This mixture will produce a large variety of beautiful large flowers at a little expense; unequaled for the price. First size bulbs.

Doz. 75c; 100 \$4.00

POPULAR MIXED.—A mighty good mixture of popular kinds.

Each 5c; doz. 50c; 100 \$3.50



Mrs. Frank Pendleton

REMEMBER there is a big difference in Gladioli bulbs. Buy our strong, vigorous, free flowering, first size bulbs and get REAL VALUE. Make the ground rich.

ROUTLEDGE SEED AND FLORAL CO'S NEW AND POPULAR DAHLIAS



GEISHA

We have probably grown and tested out more varieties of Dahlias than any other company in the Northwest, and have come to the conclusion that it is only confusing and needless to offer hundreds of varieties. So many are almost the same; many very inferior. We believe the varieties on this and the following pages will please the most critical. All are priced very reasonable and are postpaid. Field grown roots only.

DELIVERY.—We generally hold all early orders for Dahlia Bulbs until about March 1. Planting season is from April to July 1.

PAEONY FLOWERED DAHLIAS

One of the most popular classes of Dahlias. The form and style of the flowers vary greatly; some have flat petals, others are pointed and twisted in most fantastic style. All are beautiful and produced in profusion on long, slender stems; fine for cutting.

ANDREW CARNEGIE.—Beautiful salmon-shaded bronze-pink; flowers of fine size, borne freely on long, straight stems.

Each 25c

ANNA DOPPENBERG.—Grand novelty from Holland. Large flowers of splendid form on strong, erect stems. Color pure sulphur-yellow. One of the finest Dahlias ever introduced.

Each 75c

BEACON.—A glorious new English variety, the most brilliant shade of scarlet yet produced in this section. Of fine size, freely produced. One of the most showy in the garden.

Each 60c

BARON DE GRANCY.—Large fluffy, pure white flowers, rising on long slender stems far above the foliage. A gem for cutting.

Each 35c

GEISHA.—The showiest and most attractive of this type yet produced. Giant blooms of fantastic shape with broad petals curiously twisted and curled, forming a flower entirely original. Color bright golden-yellow suffused and marked with Indian red; harmonious and very striking.

Each 75c

GERMANIA.—Fine large velvety wine-red flowers beautifully suffused with golden yellow towards the center.

Each 35c

GOLDEN POTLACH.—Immense blooms of the most refined form produced on long stems well above the foliage. Rich golden-yellow, shaded with streaks of bronze. Large flat petals curling in beautiful manner. Made a fine show in our field the past year.

Each 75c

HI GILL.—Magnificent blooms of a rich golden-yellow shaded with deep rosy copper. Flowers massive, produced on very long, stout stems with a great freedom. One of the finest varieties in any class of Dahlias.

Each 75c

KING OF AUTUMN.—Buff-yellow shaded with orange and terra cotta. Unique in color and wonderful in growth, a veritable giant among Dahlias. A fine Holland novelty.

Each \$1.00

MADAME VON BYSTEIN.—Holland variety with beautiful lavender colored flowers. Of large size and excellent form on fine long stems.

Each 35c

MONSCHELBE.—Giant flower with broad twisting petals of a rich golden yellow color. Fine sturdy grower and free bloomer. Undoubtedly the finest sort of the color in this section of Dahlias.

Each 50c

MRS. T. G. BAKER.—A fine pure white variety of much grace and charm.

Each 25c

OREGON BEAUTY.—Fiery scarlet with golden shadings. Large handsome flowers on long stems; wonderfully free in bloom.

Each 35c

P. W. JANSEN.—Color, orange cerise shaded yellow. Heavy wide petals, nicely arranged. Flowers large and freely produced on stout, long stems.

Each 35c

VAN DYKE.—Lovely salmon, rose-tinted heliotrope. Of immense size, of distinct twisted form. Fine, long, stout stems; a grand exhibition variety.

Each 75c

YELLOW KING.—Flowers of colossal size on stout upright stems. Color golden-yellow tinted with bronze. A fine new Dahlia of the hybrid class, hailing from Holland. One of our finest.

Each \$1.00

ZEPPELIN.—A beautiful, true, new lavender. Large, well-formed, open flowers, gracefully poised on long, strong stems. Excellent for cutting and decorations.

Each 35c

CHOICE NEW CACTUS DAHLIAS

Of the various types of Dahlias those of the well-known Cactus form are undoubtedly the most important and best liked. There is a great diversity in the forms of the various sorts, but in the main they are characterized by the long, narrow, twisted and pointed petals of the flowers. Most of the fine petaled sorts are products of English hybridists who have worked wonders with them the last few years. Distinct from the English types are the new Hybrid Cactus sorts, most of which are coming from specialists in Holland. The following fine novelties are undoubtedly the very acme of perfection in Dahlia growing.

WHITE

ALABASTER.—Blooms of large size, just sufficiently incurved in form to show to advantage when exhibited. Flowers of the purest white. Each 75c

THE SWAN.—Snow white flowers of most approved cactus form borne on stout, stiff stems. Each 50c

SNOWDON.—Pure white Cactus Dahlia, having all the requisites of a good garden sort. Sturdy growing, free-blooming, long, stiff stems, finest form and good size. Each 50c

FRANCES WHITE.—Flowers of fine size and depth. Narrow petals curling and twisting in corkscrew fashion. Color, pure snow white. Each 35c

LAWINE.—A fine pure white, of large size, perfect form and great substance, lasting well when cut. Each 25c

PINK

LORNA DOONE.—Pretty medium-sized true cactus-formed flowers on strong stems held well above the foliage. Color, coral pink, shaded to bronze and yellow at center of bloom; very double and lasting. Each 60c

MRS. HENRY RANDLE.—Flowers of fine size and form produced with great freedom. Color, pale cream, changing to a lovely pink with age. A gem among Cactus Dahlias. Each 50c

MISS LONDON.—Finely formed flowers with tubular incurved petals nicely pointed. Color deep rose pink; tips of petals tinted yellow. Each 50c

VACHT AM RHEIN.—Early, free, continuous bloomer; flowers of fine size held erect on stiff stems; ideal for cutting, exhibition and garden decoration. Color soft shell-pink suffused white in center of flower. Long narrow tubular petals, maned and folded in elegant manner. Each 75c

YELLOW—ORANGE

CAMBRIAN.—Clear salmon, lightening to yellow at tips of petals. Flowers irregularly incurved with hooked petals of great substance. Habit of growth ideal; flowering stem good. Each 60c

EDITH CARTER.—Flowers golden-yellow, heavily tipped with rosy-carmine. Of splendid cactus form, with erect-growing habit. Each 50c

FALCON.—Long stems perfectly rigid holding large flower of finest Cactus type and form. Color, bright yellow, shaded to reddish bronze at tips of petals. A charming and distinct variety. Each 75c

HIBERNIA.—Bright primrose yellow, outer petals shaded with bronze; neat incurved form and an ideal habit of growth. A capital variety for any purpose. Each 50c

MELODY.—Very distinct, greatly admired. Flowers of fine size and form, with great depth of bloom and petals twisted and curled in exquisite manner. Center of flower bright golden-yellow, while the outer half of bloom is pure white. Each 75c

NIBELUNGENHORT.—A grand hybrid Cactus Dahlia of the greatest degree of merit. Flowers colossal in size, composed of broad, curled and twisted petals. Color, beautiful shade of old rose, tinted with golden apricot. Each 50c



Falcon

THOMAS G. BAKER.—Bright golden yellow flowers of fine cactus form with long, narrow petals, finely incurving. Growth sturdy, stems strong, holding the large flower erect. Each 25c

SCARLET—CRIMSON

F. W. FELLOWS.—This variety produces huge flowers with surprising freedom. Of true cactus form, with narrow curling petals. Color, bright orange-scarlet throughout. Each 50c

HARBOR LIGHT.—Orange-scarlet; one of the finest for cut flowers; dwarf habit, free bloomer, with large perfect flowers on long stiff stems. Each 35c

HERBERT RABY.—A giant among Cactus Dahlias, the flowers being of mammoth size and held upon fine erect, wiry stems. Color, rich purplish crimson throughout. One of the finest dark colored sorts to date. Each 50c

JOHN RIDING.—Sturdy growing, free-blooming long stout stems carrying immense flowers of the richest crimson. Each 50c

KALIF.—A majestic flower of exhibition size, often over 9 inches in diameter. Of perfect cactus form, carried on strong stiff stems well above the foliage. Color bright scarlet. Each 75c

PATRIOT.—Glorious bright-scarlet flowers of most perfect cactus forms, produced in great profusion. Fine stout stems. Admirable for cutting and a fine decorative garden variety. Each 75c

RHEINISCHER FROHSINN.—Distinct and refined flowers of the largest size and of splendid form. The long incurving petals are white at their base changing to a luminous carmine rose color towards their ends. Each 50c

W. E. PETERS.—Deep scarlet crimson flowers of the largest exhibition size. Long pointed petals are beautifully arranged, forming a magnificent incurved bloom; every flower comes perfect. Each 50c

WODAN.—Bold and large, frequently 7 inches in diameter; a graceful arrangement of semi-incurved tubular petals of a pleasing, delicate salmon-rose color, shading to old-gold in the center. Each 60c

FINE DECORATIVE DAHLIAS

In this class of Dahlias will be found those sorts which florists and gardeners prize most highly for cut flowers. At recent Dahlia shows in Portland the sorts from this class have drawn much attention and are being widely called for. These Dahlias are characterized by their strong, erect growth and their very large, loosely formed flowers on strong, stiff stems far above the foliage.

Price, Field Grown Roots, 25c each (except where noted.)

BERCHE VON HEEMSTEDE.—An extra fine Dahlia of large size, fine form, good stem and excellent keeping qualities. Color rich golden yellow. An early and profuse bloomer.

BOREEL VAN HOOGELANDEN.—Inner petals golden-yellow bordered and reversed with terra cotta. Outer petals bronze and terra cotta. Large massive flower of great refinement. Superb variety. Each \$1.00

CUBAN GIANT.—This is well named, a veritable giant among Dahlias. Flowers very large, of a rich deep crimson maroon color.

DELICE.—Pure bright rose pink; large massive flower with broad petals; beautiful form; the best of its color.

DIANA.—Grand Holland novelty with very large crimson maroon flowers of finest form. Long stout stems. A noble sort. Each 50c

GEORGE WALTERS.—Superb new sort hailing from California. Flowers of gigantic proportions on fine long stems. Color rich golden bronze shaded with salmon. Each \$1.50

GLEN EYRIE.—A superb new lemon-yellow. A large finely-formed flower borne on good stout stems. Some of the flowers show tips of white.

HORTULANUS FIET.—Colossal flower of delicate shrimp pink, the tip of each petal touched with gold. Each 50c

KAISERINE AUGUSTA VICTORIA.—Large snowy-white flowers in great profusion, borne on stout stems. Rather dwarf in growth, with the flowers standing out boldly.

LA FRANCE.—Its beautiful soft yet lively color, a glowing rose-pink, together with its perfect shape, stout stiff stems, makes this one of the most valuable for cutting.

MINA BURGLE.—A giant in growth and bloom. Immense deep scarlet flowers of finest cut-flower grade with long, stout stems holding flowers erect and possessing remarkable keeping qualities when cut.



Decorative Dahlia—Delice

MRS. WINTERS.—Very large, waxy white flowers on stately and erect stems. No finer white Dahlia than this superb decorative variety.

PRIDE OF CALIFORNIA.—Bright scarlet flowers of gigantic size. Strictly an exhibition variety. Lasts fine when cut. A California novelty. Each \$1.00

VESUVIUS.—Orange scarlet of the most brilliant shade. Large flowers on stout, straight stems. Of fine decorative form and produced in the greatest profusion. Fine for cutting. A new Holland introduction. Each \$1.00

WILLMORE'S MASTERPIECE.—Honey yellow, overlaid with golden-rose or tango color. A giant in growth and size of bloom and a variety of the highest degree of merit. Each 40c

YELLOW BEAUTY.—Golden-yellow. Produced on long straight stems. A gem for cutting.

FINE SHOW AND FANCY DAHLIAS

In this section we have the Dahlias of our grandmother's garden, with their richly colored flowers of rounded form and quilled petals. Some are delightfully edged and splashed with contrasting colors, and all are as beautiful as it is possible to imagine for garden decoration.

Field Grown Roots, 25c each; set of 12 sorts, \$2.50 postpaid.

A. D. LIVONI.—Soft shell pink, of medium size and rounded form. One of the most beautiful. Grown extensively by florists for cut flowers. Its pretty quilled petals form an elegant flower.

ARABELLA.—Yellow ground tipped and shaded with pink, an unusual combination of colors. A beautiful variety.

CHARLES LANIER.—Very large and full. Golden-yellow, edged amber. A strong, vigorous grower, producing its large flowers absolutely full to the center until killed by frost.

BON TON.—Bright scarlet flowers of perfect outline in great profusion. An old but fine variety.

A. L. CHASE.—Creamy white streaked with purple, sometimes solid purple.

JUANITA FORD.—Very large round flowers on long stems; deep cardinal red. One of the best dark varieties.

PIONEER.—Large, round flower of rich crimson maroon, of velvety texture. A grand dark sort.

LADY MILDMAY.—Pure white shaded to delicate lavender. Very large and full. Superb.

ROBERT BROOMFIELD.—A good pure white double flower; very free.

SNOWBALL.—Large round flowers of snowy whiteness. Wonderfully free in bloom and healthy grower.

SUSAN.—Delicate shell pink flowers of the most perfect outline. Robust in growth and very free. A fine variety.

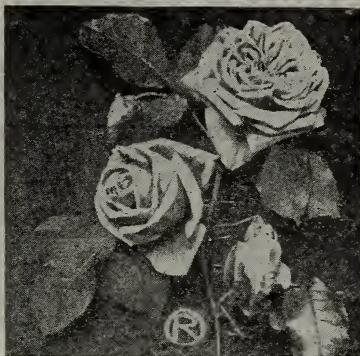
CHOICE ROSE PLANTS

For Spring and Early Summer Planting
Only and NOT for Fall Delivery

On this page we are offering four choice collections. This is the popular mail order size that we send by mail prepaid. They are grown in 3-inch pots, are strong, healthy and well rooted and from 10 to 12 inches high. To be planted outside in the warm spring or early summer months.

These will produce many blooms the first season, and you will be surprised at the results you can obtain, and at quite a saving in prices. Water well and use "C. M." and "Wonder."

NOTE.—Order any time convenient and we will forward "in season." NO ORDER FILLED FOR LESS THAN 2 PLANTS.



Ophelia Collection of New Roses

Price, 50c each; set of 6 sorts, \$2.75

Lady Hillingdon.—Deep apricot yellow, long pointed bud, a fine forcing or garden rose, excellent for cutting.

Hoosier Beauty.—Glowing crimson-scarlet with maroon shadings. Beautiful buds on long stems. Wonderfully free in bloom. A valuable new American rose.

Mad. Edouard Herriot.—The famous winner of the Daily Mail prize. The buds are long and pointed, of deep coral red color, shaded to orange yellow at base of petals.

Ophelia.—Salmon, flesh, shaded rose, base of petals apricot yellow. Fine shaped flowers. Excellent habit.

Sunburst.—Without doubt the finest yellow rose in existence. Large buds and flowers of an orange copper color, shaded golden-yellow. Superb.

George Arends.—Beautiful shade of bright pink with silvery suffusions. One of the finest offerings of recent years.

American Collection Choice Roses

Price, 40c each; set of 12 sorts, \$4.00 postpaid

American Beauty.—Large rosy-crimson flowers; sweet-scented.

Killarney.—Deep shell pink, beautiful long buds.

Radiance.—Rich, bright cerise. Handsome foliage and sweet scented.

White Killarney.—Most beautiful ever-blooming white rose in existence.

General McArthur.—Grand crimson scarlet. One of the finest.

Mad. Abel Chatenay.—Salmon pink, shaded darker. Always in bloom.

Mad. Caroline Testout.—The famous Portland rose. Large, bold, bright pink flowers.

Maman Cochet.—Beautiful rosy pink. Long pointed buds.

Richmond.—Crimson-scarlet buds. A beautiful free flowering variety.

Souv. de P. Notting.—Rich yellow, bordered pink.

Souv. de President Carnot.—Shell-pink and fawn.

White Maman Cochet.—Pure white; elegant buds.

Victory Collection Everblooming Roses

Price, 35c each; set of 10 sorts, \$3.00 postpaid

Dean Hole.—Bright carmine with silvery shadings.

Kaiserine Augusta Victoria.—Large pure white; very free and constant.

Lady Ashtown.—Silvery pink, shaded yellow. Fine large bloom.

Lady Battersea.—Bright cherry crimson, long pointed buds.

La France.—Silvery pink, large and very sweet-scented.

Papa Gontier.—Cherry red, shaded yellow. Grand bedder.

Rainbow.—Creamy pink striped and mottled crimson.

Safrano.—Apricot yellow, tinged fawn; beautiful buds.

Virginia R. Coxe (Gruss an Teplitz).—Fiery scarlet.

Viscountess Folkstone.—Delicate flesh pink; full and handsome.

Glorie Collection Hardy Roses

Price, 35c each; set of 12 sorts, \$3.50 postpaid

Anna de Diesbach.—Beautiful clear carmine pink.

Baron de Bonstettin.—Dark, rich red; very large.

Clio.—Massive, light-pink flowers.

Conrad F. Meyer.—Beautiful silvery pink.

General Jacqueminot.—Bright crimson.

Glorie Lyonnaise.—Chamois yellow; full, sweet, distinct.

Margaret Dickson.—Ivory white, shaded flesh.

Mrs. R. G. J. Crawford.—Silvery pink; fine form.

Mrs. John Laing.—Soft, delicate pink; free flowering.

Paul Neyron.—Large, deep rose; double and handsome.

Prince Camille de Rohan.—The best dark maroon.

Ulrich Brunner.—Rich, glowing crimson; large.

RAMBLER OR CLIMBERS, 1 YEAR OLD, 1/2 2 YEAR OLD PRICES. See PAGE 98.

PLEASE REMEMBER we cannot afford to pack and wrap a single Rose Plant; no order filled for less than 2 plants on this page.

CHOICE OREGON - GROWN ROSE BUSHES

We make a specialty of Rose Bushes and sell thousands upon thousands. Our bushes are strong, healthy, field-grown stock, well rooted, and will produce a profusion of bloom the first season, if given good care and cultivation. We enjoy the reputation of supplying the best stock at reasonable prices. The following list is the choicest of American and European introductions. All Oregon-grown; worth double Eastern or California.

FOR YOUR CONVENIENCE—CLASSIFICATION UNDER COLORS

This year we have arranged our Roses all under their predominating color, which appeals to us as the most convenient way. While the descriptions are necessarily short on account of limited space, you will get class (read abbreviations below), color and main points of merit.

SHIPPING AND DELIVERY

We can fill orders for our large 2-year-old Rose Bushes any time from October to May—around Portland the best planting time is during favorable weather from November to April, the earlier the better.

BY EXPRESS.—We ship all 2-year-old Rose Bushes by express, unless otherwise instructed.

BY PARCEL POST.—By request we will wrap and pack for mailing for 10c each, 60c doz. extra, plus the postage at postage rates, figuring 1 lb. per bush, 10 lbs. per doz.

ABBREVIATIONS

T.—TEA—One of the best classes of Roses and truly ever blooming. They are hardy in this section, although during our coolest weather and in cold sections they should be protected with a covering of fir boughs, straw or burlap.

H. T.—HYBRID TEA—Most of these are as free flowering and as constant bloomers as the teas, and are hardier, stronger growers.

H. P.—HYBRID PERPETUAL—The hardiest of all roses, vigorous in growth, free blooming.

WHITE ROSES

Candeur Lyonnaise (H. P.)—Pure white, sometimes tinted with pale sulphur-yellow; very large and full. A novelty of very high merit. Each \$1.00

Florence Forester (H. T.)—Clear snow-white, with a lemon tinge. Its habit is perfect, and is very sweetly perfumed. Gold medal. Each \$1.50

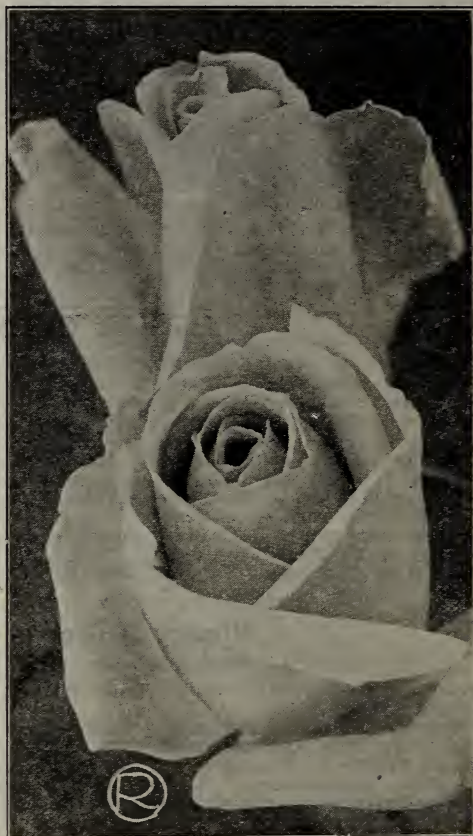
Frau Carl Druschki (H. P.)—A large, grand, hardy, pure white; best and most popular. Each 75c

Gloire Lyonnaise (H. P.)—White, tinted with yellow, large, full and of good shape. Very free, distinct and pleasing. Each 75c

Kaiserine Augusta Victoria (H. T.)—A strong, vigorous grower, producing buds and flowers of enormous size; color, pure white. We have no hesitancy in saying that this rose is unequaled by any other variety of its color. Each 75c

Margaret Dickson (H. P.)—Large flowers, elegantly formed and well presented on long, stiff stems, pure white, with pale flesh center and magnolia fragrance. Each 75c

White Killarney (H. T.)—Long, pointed buds of purest white and heavy, wax-like texture, opening to large, full flowers; very lasting. Each 75c



Florence Forester

Bigheart, Okla, Box 691.

Routledge Seed & Floral Co.

Gentlemen: I wish to tell you how well the Roses did that I received from you this spring. The ones I had to grow have done extra well. Made a big growth, bloomed well and in bud now. They are new to most people. Here Teas are the order. Had a great many comments on them.

Yours truly,

CHAS. W. ALEXANDER.

Yours truly,

MRS. ROY COOPER.

SEE BIRDS AND SUPPLIES, PAGE 150

Hood River, Ore., April 12, 1920.
Routledge Seed & Floral Co.

Sirs: I have been using your Bird Seed for some time and find my birds (I have eight singers), do better on your seed than any other I have ever used.

Make your Rose Bushes grow and bloom profusely by applying a liberal amount of "C-M" and "Wonder." See pages 38, 39.

PLEASE NOTE.—Should we be sold out and unable to obtain the varieties of Roses ordered, others similar or better and **CORRECTLY LABELED** will be substituted, **UNLESS OTHERWISE ORDERED.**

YELLOW ROSES

Constance.—Buds long and pointed, of a rich orange-yellow color distinctly streaked and splashed with crimson near base of petals, passing to large, full flowers of bright cadmium-yellow. Very free in bloom. A glorified Rayon d'Or. Each \$1.75

Duchess of Wellington (H. T.)—Intense rich saffron-yellow; very large and of fine form; beautiful in bud as well as open flower. One of the finest offerings of recent years. Each \$1.00

Duchess of Normandy (H. T.)—A beautiful, large, full flower; salmon-flesh, paling to cream at edges. Each \$1.75

Franz Deegan (H. T.)—One of the strongest growing of all the yellow ever-blooming roses. Throws up strong canes from the ground, each one crowned with a glorious golden-yellow flower of beautiful form and great texture. A free and constant bloomer and very lasting. Each \$1.00

Lady Hillingsdon (H. T.)—Deep apricot yellow, long pointed bud. Each \$1.00

Mad. Ravary (H. T.)—Clear orange-yellow; long, pointed buds; flowers of fine form. Each \$1.00

Mrs. Ambrose Riccardo (H. T.)—A beautiful new yellow Hybrid Tea Rose from continental Europe. Wonderfully free blooming and vigorous growing for a rose of its class. Buds beautifully formed, honey yellow; very sweet scented. Each \$1.50

Mad. Melanie Soupert (H. T.)—Saffron yellow suffused with carmine and pink. A great favorite. Each \$1.50

Rayon d'Or or Golden Rays (H. T.)—A gorgeous new golden yellow rose; superb. Each 75c

Soleil d'Or (Golden Sun) (H. P.)—Flowers very double; most beautiful when full blown; a superb color, varying from gold and orange-yellow to reddish-gold and shaded with nasurtium-red. Each \$1.00

Sunburst (H. T.)—Rich cadmium yellow, shaded orange. The buds are very long and beautiful form, opening into a gorgeous colored flower. Each \$1.00

PINK ROSES

Baroness Rothchild (H. P.)—Large size, fine globular form; color bright rosy pink. Each 75c

Columbia (H. T.)—This beautiful Rose is of strong, vigorous habit of growth and exceptionally free-blooming. The flowers, which are of good size, are perfect in form, both in bud as well as when fully expanded. In color it is a most pleasing shade of rose-pink and delightfully fragrant. Each \$1.75

Clio (H. P.)—Vigorous growth; large, handsome foliage; flowers flesh color, shaded in the center with rosy pink; very large, fine globular form and freely produced. Each 75c

Mad. Second Webber (H. T.)—Salmon pink, vivid center; large, full and perfectly formed flower, flowering freely and continuously on stiff, erect stems. Each \$1.00

Prune your rose bushes when planting—don't leave over 8 to 12 inches of top growth. Try it; you'll get better results.



Nez Perce, Idaho, April 10, 1919.

Routledge Seed & Floral Co..

Dear Sirs: We received the order of shrubbery in fine condition. Am well pleased with everything.

Yours truly,

G. W. ULIN.

George Arends or Pink Frau Karl Druschki—A beautiful pink variety; different in color from any other rose; a free bloomer and one of the best. Each \$1.00

Los Angeles.—Described by the originator as "a flame pink, toned with coral and shaded gold at base of petals." Buds long, pointed and lasting. The flowers are very large and the beauty of coloring does not fade. Flowers profusely all season on strong shoots. The foliage is a rich, luxuriant, glossy green. Each \$1.50

Lady Ashtown (H. T.)—One of the finest pinks of a rich, deep, silvery tone; flowers large. Each \$1.00

Lady Alice Stanley (H. T.)—Delicate flesh pink, outside of petals deep coral rose. Beautiful long pointed buds opening into a fine, large, well-formed flower, having a delightful fragrance; fine, strong-growing variety, with beautiful leathery green foliage upon straight upright canes of good length. Each \$1.00

Madame Caroline Testout (H. T.)—Portland's famous brilliant pink rose. Each 75c

Mrs. John Laing (H. P.)—Very free-flowering, commencing to bloom early in the season and continuing to bloom profusely until late autumn. Color soft, delicate pink, with a satiny tinge. Each 75c

Paul Neyron (H. P.)—Deep, shining rose, double and handsomely formed; blooms freely, and is unusually strong and vigorous; the largest variety in existence and one of the most desirable for the garden. Each 75c

PLEASE NOTE.—Should we be sold out and unable to obtain some certain varieties of **Roses** ordered, others similar or better and **CORRECTLY LABELED** will be substituted, **UNLESS OTHERWISE ORDERED.**

TRICOLORS — SHADES OF YELLOW, ORANGE, GOLD, RED OR PINK

Austrian Copper (H. T.)—A single-flowered rose of the June-flowering type. Rich, copper-colored flowers in clusters. Much admired at the Portland Rose Show.

Each 75c

Betty (H. T.)—Beautiful coppery-rose color, overspread with golden-yellow; fragrant.

Each \$1.00

Beaute de Lyon.—Large, refined flower of a rich coral-red, nicely shaded with yellow. A seedling of Soleil d'Or. Very superior to that variety both in growth and flower.

Each \$1.00

Cheerful.—Pure orange flame, the flame shading overspreading the petals, giving it a pleasing effect. Flowers large, full and good form. Very free.

Each \$2.00

Irish Fireflame.—These buds are wonderfully rich in coloring; opening to a large single flower; old gold, shaded ochre.

Each \$1.00

Gorgeous (H. T.)—Flowers large and full, freely produced on stiff, erect stems; color deep orange yellow, flushed copper yellow, and veined with reddish copper.

Each \$1.50

Jonkheer J. L. Mock (H. T.)—It is of the type of La France, with large, round blooms surmounting its stout, almost thornless, canes; color, rich bright pink, reverse of petals carmine.

Each 75c

Joseph Hill (H. T.)—Salmon pink, shaded with yellow, outer petals tinted coppery pink, long bud; very large, full flowers.

Each \$1.00

Juliet (H. B.)—A wonderful combination of old gold on the outside of petals and a rich rosy red on the inside. Flowers large, full and delightfully scented.

Each 75c

Lady Mary Ward (H. T.)—Free, vigorous and hardy; color rich orange, shaded deeper orange, with metallic veining.

Each \$1.50

Mrs. Wakefield Christy Miller (H. T.)—Soft pearly blush, shaded to salmon, outer side of petals darker. Flowers large, of loose formation and novel appearance. A grand variety for cutting, producing its flowers on stout, long stems. Its delicate colorings are charming in effect.

Each \$1.00

Louise Catherine Breslau (H. T.)—Coral red, shaded chrome yellow, opening to a flower of shrimp-pink, shaded coppery-orange.

Each \$1.50



Cheerful

ROSE STAKES.—Use our white-headed green rose stakes to protect your bushes. See page 116.

Lady Pirrie (H. T.)—Deep coppery-salmon, shaded to apricot and fawn; strong, erect-growing and free-blooming. An ideal variety.

Each \$1.25

Lyon (H. T.)—Distinct; shrimp pink with salmon and chrome yellow shadings; beautiful beyond description.

Each \$1.25

Madame Edouard Herriot (T.)—Long, pointed buds, a deep coral red color, shaded to yellow at the base; flower of a rare shade of rosy scarlet, flushed with shrimp and apricot tints.

Each \$1.00

Mrs. F. W. Vanderbilt.—Fine, long-pointed buds, full, well-formed flower, deep orange-red, shaded bronzy-apricot; very free and perpetual. Very desirable.

Each \$1.50

Mademoiselle Cecile Brunner (Dwarf Polyanthus).—Exquisite little roses, buds dainty, pointed, bright salmon pink, yellow center.

Each 75c

Old Gold (New).—A vivid reddish orange with rich coppery red and coppery apricot shadings. Long dainty buds lasting a long time in perfect condition.

Each \$1.25

Ophelia (H. T.)—The most popular cut flower variety today. Buds orange salmon, opening to a perfect full flower of dainty salmon pink and cream; elegant shape, fine foliage; superb.

Each 75c

“C-M” Your Rose Beds

The most beautiful roses are produced by care, cultivation and fertilizer. “C-M” kiln-dried (weed free) ground cow manure, better than the raw material, will do wonders and is much cleaner and nicer to handle. See page 39.

MOSS ROSES

Strong, vigorous growers, much admired for moss-covered buds; hardy; most varieties bloom but once in a season, but remain for a long time and very handsome.

Your choice, White, Pink or Red, \$1.00 each

All 2-year-old rose bushes by express unless otherwise ordered. Read about shipping, inside front cover, or top of page 93.

All 2-year-old rose bushes by express unless otherwise ordered. Read about shipping, top of page 93, and inside front cover.



Hoosier Beauty

RED, SCARLET AND CRIMSON

Admiral Ward (H. T.)—Vigorous, erect-growing Hybrid Tea Rose from the famous hybridizer, Pernet Duchere. Large, glossy, bronzed foliage. Large, full, globular flowers, freely produced. Color crimson red, shaded fiery scarlet and velvety purple. Each \$1.00

Augustus Hartmann.—Brilliant geranium red flushed orange; very large, well-formed flowers with high pointed center. Each \$1.00

Chateau de Clos Vougeot (H. T.)—A very rich, fiery scarlet shading to deep velvety crimson. It is delightfully fragrant, a prolific and continuous bloomer.

General McArthur (H. T.)—A grand crimson scarlet Hybrid Tea Rose. It is very free-blooming, every shoot producing a beautiful and richly-colored bud and flower, which does not fade in the hottest sun. The flowers are large, double, of fine form and very fragrant. Each \$1.00

Gruss an Teplitz (H. T.)—This is a rose for everybody, succeeding under the most ordinary conditions. Rich scarlet, shading to crimson; fragrant; a free, strong grower and in bloom all the time. Each 75c

Hadley (H. T.)—Color beautiful rich, bright red. Very free and constant. A shapely, graceful bud and flower. One of the most charming and distinctive red roses. Each \$1.25

Hoosier Beauty (H. T.)—A grand new hybrid tea rose of American origin, having been produced by a well-known hybridist in the State of Indiana. Flowers dark crimson, shaded with maroon and veined with black; petals of remarkable substance—like so much crimson velvet; buds beautifully formed, with fine, pointed shape, opening into large, double flower. Each \$1.25

Marshall P. Wilder (H. P.)—Color rich ruby-red, changing to lovely scarlet-maroon; very beautiful sort for general planting, being of hardy, vigorous growth and very fine flowering. Each \$1.50

Mrs. Charles Russell (H. T.)—Strong, rank growth, canes stout and thornless, clothed with handsome, dark-green foliage. Flowers very large and massive. Form globular and very full. Color bright rich cerise, shaded to scarlet at center. A continuous bloomer all season through. Each \$1.00

Mad. Abel Chatenay (H. T.)—A rose of extraordinary merit. A free bloomer, with flowers of good size and substance. Color, beautiful rosy carmine with darker shadings. Each 75c

Richmond (H. T.)—Color a magnificent rich scarlet-crimson, the most vivid we have yet seen among ever-blooming roses. Flowers of fine size and form, produced on long stems well above the foliage. One of the sweetest roses in existence. Each 75c

Radiance (H. T.)—A giant growing new pedigreed rose of the greatest merit. Simply wonderful in its rankness of growth and freedom of bloom. The long, straight canes, with their handsome foliage, each terminate in a large, full flower of globular form of great sweetness. Color, rich bright cerise, entirely distinct from any other known variety. One of the best roses in our collection. Each \$1.00

Ulrich Brunner (H. P.)—Extra large bold flowers, full and globular; color, rich glowing crimson, elegantly flamed with scarlet; a good grower and free bloomer. Each 75c

BABY OR DWARF POLYANTHA ROSES

A type of roses which grow only a foot or two high, bear large clusters of flowers possessing great lasting qualities, and are always in bloom. They are fine for massing in beds, for bordering large rose beds or planted singly on the lawn. Perfectly hardy. Your choice of the following each 60c, doz. \$6.00.

ANNY MULLER.—Large clusters of brilliant rose-colored flowers, produced in great profusion.

BABY RAMBLER (Dwarf-bush type).—Not over 18 inches high, producing large trusses of light crimson flowers; clean, dark-green foliage.

ERNA TESCHENDORFF.—Bright crimson flowers, produced in large clusters; a fine massing variety.

MRS. W. CUTBUSH.—Clusters of pretty double, bright pink flowers, freely produced in panicles; always in bloom.

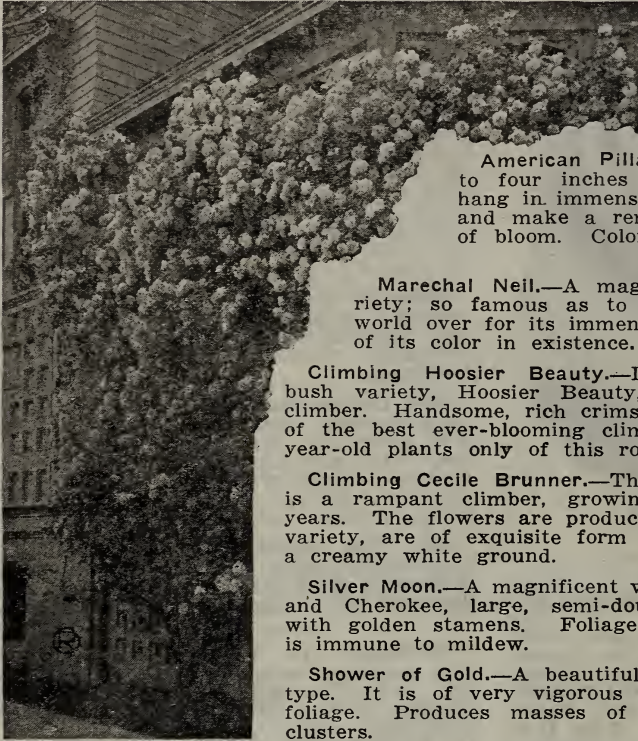
ORLEANS.—Color brilliant geranium red, suffused rose, with white center, making a charming combination; bushy habit and very free flowering.

BABY TAUSENSCHON.—Pale pink flowers, becoming reflexed with carmine-rose; very beautiful.

SHOULD BUSHES ARRIVE VERY DRY, bury tops and all in damp ground or immerse in a tub of water for a few days. It will benefit them very much.

CLIMBING ROSES. HARDY, LARGE FLOWERING

The lavish profusion of bloom on climbing Roses, literally hundreds of flowers on each plant, their beautiful colors and exquisite fragrance render them unequaled for covering houses, arbors, pergolas, fences and boundary walls.



Madam Alfred Carriere.—Extra large, full flowers; very double and sweet, and a most profuse bloomer; color, rich, creamy white, faintly tinged pale yellow. Each 75c

American Pillar.—Flowers saucer-shaped, three to four inches across and very lasting. They hang in immense clusters all along the branches, and make a remarkable sight, a veritable sheet of bloom. Color, clear bright, rosy pink. Each 75c

Marechal Neil.—A magnificent, deep golden yellow variety; so famous as to need no description; grown the world over for its immense yellow flowers; the finest rose of its color in existence. Each \$1.25

Climbing Hoosier Beauty.—Identical with that superb new bush variety, Hoosier Beauty, except that it is a rampant climber. Handsome, rich crimson flowers shaded to black. One of the best ever-blooming climbing roses yet produced. Two-year-old plants only of this rose. Each \$1.00

Climbing Cecile Brunner.—This beautiful little Polyantha Rose is a rampant climber, growing to a great height in a few years. The flowers are produced in clusters and, like the bush variety, are of exquisite form and color, being a rosy pink on a creamy white ground. Each 75c

Silver Moon.—A magnificent white climber, cross of Wichuriana and Cherokee, large, semi-double blooms of good substance, with golden stamens. Foliage is abundant, bronze green, and is immune to mildew. Each 75c

Shower of Gold.—A beautiful new climber of the Wichuriana type. It is of very vigorous growth, with dense glossy green foliage. Produces masses of golden yellow flowers in large clusters. Each \$1.00

RAMBLER OR PILLAR ROSES

The following climbing Roses all grow vigorously, and are profuse bloomers and very hardy anywhere. The flowers are borne in large clusters. 1-YEAR-OLD PLANTS 25c EACH POSTPAID.

Crimson Rambler.—This grand rose is well known and very popular of rapid growth. flowers in trusses, fairly covering the plant from the ground to the top. Each 75c

Dorothy Perkins.—(See illustration). Flowers in immense clusters, beautiful shell pink, very double with petals artistically crinkled. Each 75c

Flower of Fairfield.—Brilliant crimson; base of petals white. A splendid grower and a great improvement over the old type. Each 75c

Red Dorothy Perkins.—Fine crimson rambler. Glossy-green foliage; never troubled with mildew. Flowers very double. Each 75c

Tausendschon.—A lovely shade of soft pink, free and vigorous; splendid foliage. Each 75c

Thousand Beauties.—Entirely distinct. Large single flowers fully 3 inches across; a delightful shade of soft pink, shaded carmine and produced in trusses of from 10 to 15 flowers, each truss a veritable bouquet. Each 75c



Dorothy Perkins, 30 ft. High, Thousands of Blooms. A Popular Variety

All 2-year-old rose bushes by express unless otherwise ordered. Read about shipping, inside front cover. For rose fertilizers, see pages 38 and 39.

HARDY FLOWERING & ORNAMENTAL SHRUBS

NOTE—"D" following the name stands for Deciduous, "E" Evergreens.

Shrubs, deciduous and evergreen, are as much a part of the well-balanced garden as the lawn or flower borders. They are ornamental and highly useful as cut flowers. A well-arranged planting presents an attractive appearance throughout the entire year.

SHIPPING.—At the prices given we send large, well-branched bushes from 2 to 5 years old, grown in the open ground. As our shrubs are for the most part large and heavy, we usually send them by express or freight. By request, small sizes can be sent by parcel post, but you should add at least 10c to 20c extra per single plant to cover packing and postage.



Flower Spray of Crenata Deutzia

AZALEA (D)

MOLLIS.—Blossoms in early spring, before the leaves appear. Pink or White only.
Each \$1.25 to \$1.50

BARBERRY (D)

Fine for massing, banking, hedges or even as single specimens. Dainty, early flowers, showy small leaved foliage and berries in the fall and winter make them very popular.

THUNBERGII.—A beautiful Japan variety of dwarf habit. Small foliage, changing to beautiful red in autumn. Bright scarlet berries all winter. Each 75c to \$1.00

PURPUREA (Purple Barberry).—Foliage a beautiful deep purple all the year; a splendid specimen shrub and almost indispensable in contrastive groupings.
Each 60c and 75c

COTONEASTER

Very popular plants with minute, deep, glossy green foliage and bright red berries that hang on all winter.

HORIZONTALIS.—A plant of prostrate habit of growth; admirable for covering low walls or to use in rock work. Choice plants.
Each \$1.50 to \$2.00

MICROPHYLLA (E).—Same growth as above, variety evergreen leaves; berries not so bright. Each \$1.50 to \$2.00

SIMONDSII (D).—A beautiful upright growth with fruit of a rich, deep orange color. Each \$1.50 to \$2.00

Ironside, Ore., March 9, 1920.
Gentlemen: I was delighted with the Hydrangea plants and am sending you another order for flowers. Have shown my plants to my neighbors and all say they are much better plants than they are getting from other floral companies. Yours very respectfully,
MRS. H. C. ELMS.

DEUTZIAS (D)

Their hardihood, fine habit, luxuriant foliage and profusion of attractive flowers in May and June render them among the most beautiful and most popular of flowering shrubs.

Price, your choice, 75c to \$1.00 and up

GRACILIS ROSEA.—Dwarf growing with sprays of pretty light pink flowers late in the spring. A beautiful shrub.

LEMOINEI.—Flowers very large and produced in broad-based, cone-shaped heads of from 20 to 30 flowers each, of purest white. 3 to 4 feet.

PRIDE OF ROCHESTER.—Flowers very double and full; pure white, tinged with blush; great profusion. Grows 4 to 6 feet.

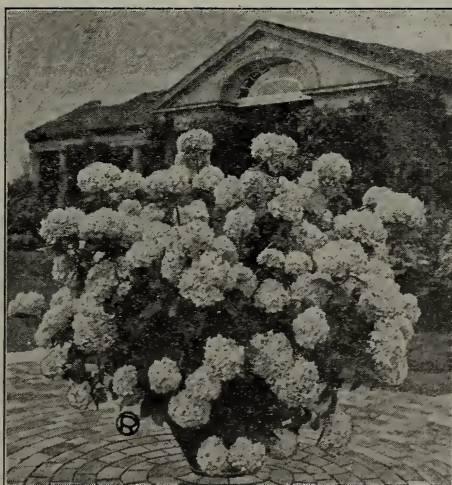
GEINSTA (E) Broom

Large plants of the following, 3 to 4 feet, bushy. Each \$1.25

ALBA.—Pure white. Each \$1.00

ANDREANA.—Red and yellow flowers; very pretty. Each \$1.00

SCOPARIA (Scotch Broom).—Rapid growing; yellow flowers in May. Each 50c to \$1.00



Hydrangea Hortensia
(See next page.)

Feed Your Plants.—You must supply "food," in other words, fertilizer, if you want the best results. Read about "Wonder" and "C-M," pages 38-39.



Hydrangea Paniculata Grandiflora

HYDRANGEA (D)

HORTENSIA.—One of our most popular and showy lawn plants. Often grows in pots or tubs. Ornamental foliage and beautiful flowers in large, flat trusses. (See cut.) The beautiful pink variety is most popular, but we can supply White, Pink or Blue. Young plants, 50c. Large plants, according to size and number of flower shoots, 75c, \$1.00, \$1.50. Large specimen plants, \$2.50 to \$4.00. (See cut page 99.)

PANICULATA GRANDIFLORA. — The grandest as well as the most popular of all shrubs, and hundreds of thousands of them are sold every year; excellent for hedges or massing; unsurpassed for the lawn; blooms in July and August, and continues in bloom for two or three months. The flowers are massive, cone-shaped, sometimes 10 inches in length, and changing from the original pure white to pink, and finally to a beautiful rich coppery red. Strong plants, 2 to 3 feet and up, each 75c.

LILACS (D)

Everyone loves the lilac and no garden is complete without one or more. The new imported grafted varieties are very beautiful and produce magnificent large flowers.

COMMON WHITE OR PURPLE.

Each, 3 to 4 ft. 75c to \$1.00; larger, \$1.50 to \$2.00.

IMPORTED BUDDED VARIETIES.—Your selection following named varieties. 3 to 4-year-old select plants, \$1.50 to \$2.00. (Not mailable.)

GEORGE BELAIR (Single). — Beautiful flowers, purple.

MARIE LE GRAYE (Single). — Beautiful creamy white flowers of immense size.

MME. LEMOINE (Double).—Fine double white variety; very fragrant.

MAD. CASIMIER PERIER (Double).—Fine creamy white.

MICHAEL BUCHNER (Double.)—The best pale lilac or lavender.

CHARLES BALTET (Double).—Long trusses; double; beautiful rosy lilac or purple

HAWTHORNE (D)

A beautiful flowering shrub that grows to be a fair-sized tree.

DOUBLE WHITE or RED.—5 to 6 ft., \$1.00; 6 to 8 ft., \$1.25 to \$1.50.



Single Lilac—Marie Le Graye

QUINCE (D) Cydonia

JAPONICA.—Bright scarlet single, flowers very early in the Spring, before the leaves appear. Thorny, compact growth. One of our best hardy shrubs. Small, each 60c; large, 3 to 4 ft., each 75c to \$1.

NOTE.—"D" stands for Deciduous plants that drop their leaves in the fall. "E" for Evergreens that retain their foliage all year.

HARDY FLOWERING SHRUBS AND ORNAMENTALS—Continued

SPIREAS (D)

Graceful shrubs, everyone should plant. They are of the easiest culture, and very desirable in collections. All the Spireas bloom with a riotous extravagance which makes them quite striking. Their individual style, color and habits of growth differ so markedly, that a collection of varieties will ensure bloom the entire season.

ANTHONY WATERER. — Covered nearly the whole growing season with large umbels of deep crimson flowers.

Small 75c; large \$1.00 to \$1.25

VAN HOUTTEI (Bridal Wreath.)—The grandest of all the Spireas. It is a beautiful ornament for the lawn at any season, but when in flower it is a complete fountain of white bloom, the foliage hardly showing; perfectly hardy and an early bloomer. See cut.) Small plants, 60c; large 75c to \$1.00

THUNBERGII.—Of graceful habit; the branches are slender and somewhat drooping; foliage in autumn changes to bright red and orange; flowers in feathery masses, white, appearing early.

Small plants 60c; large 75c to \$1.00

SNOWBALL (D)

STERILIS (Common Snowball.)—Blooms in latter part of May. Flowers pure white, large balls. Every one should plant a Snowball. Each, small plants, 60c; 3 to 4 ft., each, 75c to \$1.00; extra choice, 5 to 6 ft., \$1.25 to \$1.50.

PLICATUM (Japanese Snowball.)—One of the most charming hardy flowering shrubs in existence; bears great wreaths and clusters of pure white globular masses of flowers; covered with bloom for weeks in the spring; grows 4 to 6 feet high; entirely hardy. Each, 2 ft., 75c; 2 to 3 ft., \$1.00.



Weigela (Flowers 1/2 Natural Size)



Spirea Van Houtte

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**ALWAYS REMOVE** the packing and moss from the trees before planting. **NEVER** put manure so as to come in contact with the roots of any plant or tree. Use only good soil on and around the roots.  
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SYRINGA (D)

Mock Orange.—A valuable class of hardy shrubs of vigorous growth, bearing for the most part fragrant white flowers during late spring and early summer.

AUREA.—Beautiful golden yellow foliage, white flowers of orange like fragrance. Each 75c to \$1.00.

LEMOINEI. — Slender, graceful branches covered with snowy white flowers of delightful fragrance. Each 60c and 75c.

VIRGINALE.—Dwarf growing syringa covered in June with pure white flowers. Very fragrant. Each 60c and 75c.

TAMARIX

GALLICA.—A tall slender growing shrub with fine feathery foliage like that of a Juniper. Branches covered in the early summer with delicate pink flowers. A graceful and beautiful shrub. Each 75c.

WEIGELA (D)

Beautiful shrubs that bloom in May, June and July. The beautiful trumpet-shaped flowers are produced in so great profusion as to almost entirely hide the foliage. They are very desirable for the border or grouping, and as specimen plants.

Prices: Following kinds, each 75c to \$1.00

CANDIDA.—Beautiful white flowers; a continuous and profuse bloomer; very hardy.

ROSEA V.—Lovely, large, rose-colored flowers, borne in such profusion that the whole bush appears a mass of rosy bloom.

EVA RATHKE.—This variety is quite scarce and rare. Has beautiful blood-red flowers. Free bloomer. Each \$1.00.

Myrtle Creek, Ore., January 17, 1920.

Routledge Seed & Floral Co.

Gentlemen: I was very much pleased with the shrubs and plants that you sent me last year and have been impatient for the new catalog to make up my order. It just arrived today.

Respectfully,

MRS. J. M. BOYLES.

DON'T Be misled by the fine catalogs with little prices sent out from the East. Buy our field-grown plant, much larger and better than the weakly Eastern stock.

EVERGREEN SHRUBS AND TREES

In moving evergreens, they are generally taken up with a ball of earth about the roots; this makes it necessary to ship them by express or freight only. The stock we offer has been moved in the nursery every two years. This insures their living, and they are worth double the ordinary stock. NOTE—Add 25% to the prices for packing and shipping charges.

ARBOR VITAE (E)

GOLDEN.—An attractive, hardy, compact evergreen of a beautiful golden yellow.

Each, 2 to 3 ft., \$3.00

AZALEA (E)

A. CRIMSON.—A hardy evergreen species. These are dwarf, compact growers. Foliage small; flowers dazzling crimson. Each \$2.50

BOXWOOD (E)

A compact, small leaved evergreen that can be trimmed into balls, box or pyramidal shape.

DWARF, COMMON.—Fine for borders, edgings or low hedges. Hedge plants, 6 in., each 30c; per 100, \$25.00. Specimen plants shaped. Each \$2.50 to \$5.00

CEDAR (E)

DEODORA (Deodar or Indian Cedar).—Of vigorous growth; pyramidal form; graceful foliage of a light, silvery or glaucous green.

Each 2 ft. up, \$3.50 to \$5.00

EUONYMOUS (E)

Slow growing, compact, pretty leaved shrub. **JAPONICA.**—Green or Variegated. Very attractive; 2 feet. \$1.50 to \$2.00

HOLLY (E)

Very popular everywhere.

ENGLISH (Aquifolia).—Budded stock, guaranteed berry-bearing. Well balled and carefully packed. Each, 2 to 3 ft., \$2.50 to \$3.50. Specimen plants, 3 to 5 ft., \$5.00 to \$7.50 and up.

LAUREL (E)

ENGLISH.—A small tree, or bush, with handsome shining thick foliage. Excellent for large hedges or screens or as single specimens. 18 to 24 inches, each 75c; 2 to 3 ft., \$1.00; 3 to 4 ft., \$1.50.

LAURUSTINUS (E)

Beautiful evergreen shrub with bright shining green leaves and covered in the late fall, winter and early spring with large panicles of fragrant white blossoms. Small, \$1.00 each; 1½ ft., \$1.50; 2 to 3 ft., \$2.00 to \$3.00.

MAHONIA AQUILIFOLIA (E)

OREGON GRAPE.—Native of Oregon, and our state flower. Very valuable and desirable on account of its beautiful foliage and clusters of yellow flowers in spring, followed by blue-black berries. Choice plants, nursery grown, each 75c to \$1.00; large, \$2.00

PINE (E)

AUSTRALIAN.—Robust, hardy, spreading, long, dark green needle-like foliage. 2 to 3 ft., \$2.50 to \$3.00.

MUGHO.—Dwarf, upright, but spreading habit; its silvery blue foliage makes it very desirable; bushy. 3 feet up, \$7.50 to \$10.00.

PRIVET (E)

One of the best hedge plants; has small, pointed, evergreen leaves; grows rapidly and compactly; stands severe pruning, and can be kept in fine shape with little care. California.

Strong field plants, 12 in. up, per 10, \$1.50; per 50, \$5.00; per 100, \$8.00; 2-year-old plants, 24 in., per 10, \$2.00; per 50, \$7.50; per 100, \$12.50.



RHODODENDRON PLANT
"Balled in earth." Can be moved any time from October to June. Not mailable

RHODODENDREONS (E)

Stock very scarce. We have a limited number of choice budded named varieties that will bloom this year in White, Lavender, Pink and Red at \$3.50 to \$5.00 each.

SPRUCE (E)

EXCELSA (Norway Spruce).—One of our most popular evergreens; dark green. Specimen plants, \$2.00 to \$4.00 each.

KOSTERI PUNGENS, GLAUCA.—A beautiful variety on account of its magnificent, rich, silvery blue color. We offer only the "true blue" imported from Holland. Each, 2 to 3 ft., \$10.00; 4 to 5 ft., \$15.00 to \$18.00.

YUCCA (E)

A stately foliage and flowering plant equally imposing in solitary or group plantings, always conspicuous. The broad, sword-like foliage is evergreen; while midsummer shows great erect branching stems bearing a showy display of pendant, creamy-white bells.

Prices: 2-year and up, 50c, 75c and \$1.00; 18 to 24 in., \$1.50.

Plant Darwin Tulips

To make a brilliant and showy effect plant a dozen or two Giant Darwin Tulips in the open spaces between or in front of Evergreen Shrubs or plants. The giant, showy blooms come on stems 20 to 24 inches high and remain a long time. See prices, pages 86.

If there is any information or advice that you wish, we will be glad to serve you to the best of our ability. Twenty years' practical experience on the coast enables us to serve you intelligently.

NUT TREES

RAISE ENGLISH WALNUTS.—We can successfully raise English Walnuts here in the Pacific Northwest, and the quality of the nuts is superior to most other sections. Plant a tree or two at least, for your own use and, if you have a large place, plant more. While the cost of grafted stock is more, we advise you to plant them, as there is "no chance" as to quality of the nuts.

WALNUTS (D). Grafted Stock.—This year we are prepared to supply you with Oregon-grown trees that are extra select and **ESPECIALLY FINE ROOTED**, much superior to the California trees on account of the fine growth of strong fibrous roots. The stock we offer is Voorman's famous Franquette grafted on California black walnuts roots.

Prices: 4 to 6 ft., each \$3.00; per 10 \$25.00; 6 to 8 ft., each \$3.50; per 10 \$30.00.

SEEDLING STOCK.—Not grafted. Prices: Each, 4 to 6 ft., \$1.25; 6 to 8 ft., \$1.75.

HICKORY NUT.—3 to 4 ft., \$2.00.

BUTTERNUT.—75c to \$1.00.

ALMONDS.—IXL-Nonpariel or Ne Plus Ultra.—1-year, 3 to 5 ft., each \$1.00; 10 for \$9.00; 100 for \$60.00.

JAPANESE WALNUT.—3 to 5 ft., \$2.00.

FILBERTS.—Barcelona and Du Chilly.—2 to 3 ft., each \$1.00; doz. \$10.00, suckers 75c each; \$6.00 doz.

SHADE AND ORNAMENTAL TREES

The following are our most popular varieties. If you want some other kind, inquire; we, no doubt, can supply.

NOTE.—We make a packing and shipping charge on out-of-town orders as follows: One tree, 50c; 6 trees, \$1.00; 12 trees, \$1.50.

BIRCH (D)

Remarkable for its elegance; very graceful; silvery bark and slender branches.

WEeping CUT-LEAVED (alba lancinifera pendula).—Charming tree; gracefully drooping branches, silvery white bark and delicately cut foliage present a combination of attractive characteristics rarely met with in one tree. 7 to 8 ft., \$2.25; 10 ft., \$3.00.

CATALPA (D)

A beautiful shade tree. White flowers in July.

SPECIOSA.—6 to 8 ft., each \$1.50.

CHESTNUT (D)

Very popular, stately shade trees. Extensively planted for shade.

HORSE, EUROPEAN, RED FLOWERING.—Much slower grower than the white. 5 to 6 ft., \$1.25 to \$1.50.

HORSE, WHITE FLOWERING.—4 to 5 ft., \$1.00; 6 to 8 ft., \$1.25; 9 to 10 ft., \$1.50; 10 to 12 ft., \$2.00.

AMERICAN SWEET.—4 to 6 ft., \$1.25.

SPANISH.—4 to 6 ft., \$1.25; 7 to 8 ft., \$1.50.

ELM (D)

One of the most popular and best shade trees. Very desirable for street.

AMERICAN WHITE.—6 to 8 ft., each \$1.50; 8 to 10 ft., \$2.00.

LINDEN (D)

Very desirable and beautiful trees for park or street planting; large heart-shaped leaves, white flowers; rapid growers. 8 feet up, each \$2.00.

MAPLE

SILVER VARIEGATED (A. Negundo Variegatum).—Most attractive; leaf is variegated white and green 4 to 6 ft., \$1.50; 6 to 8 ft., \$2.00.

LARGE GROWING MAPLES FOR SHADE

Your choice of the following kinds: 7 to 8 ft., \$1.50; 8 to 10 ft., \$1.75; 10 to 12 ft., \$2.00.

NORWAY.—Of large, compact habit; broad, deep green shining foliage, and stout, vigorous growth.

OREGON.—Wide-spreading branches and large foliage; very rapid growth.

SILVER OR SOFT.—Native tree of rapid growth; foliage bright green above and silvery white beneath.

SUGAR or HARD.—Of upright habit of growth; dense shade; extensively used.

ASH-LEAVED.—A fine, rapid-growing variety, with handsome, light green foliage and spreading head; very hardy; desirable for street planting.

PURPLE-LEAVED SYCAMORE MAPLE.—A purplish tone is imparted to the tree by the purple under-surface of its leaves; the effect being very fine when the leaves are in motion.

MOUNTAIN ASH (D)

Very ornamental trees, especially when covered with its clusters of red berries in the fall. 7 to 8 ft., \$1.50; 8 to 10 ft., \$2.00.

POPLAR (D)

These well known trees are planted largely for windbreaks and ornamental purposes; very rapid growers.

CAROLINA.—Pyramidal; Lombardy.—Tall and spiral, 7 to 8 ft., 75c; 8 to 10 ft., \$1.00.

NOTE.—Very low price for quantities.

TULIP TREE (D)

A rapid-growing tree, with rich, glossy foliage; flowers tulip-shape, greenish yellow; a fine shade tree. 7 to 8 ft., \$1.50; 8 to 10 ft., \$2.00.

TRANSPLANTING.—When transplanting trees of any kind, trim and prune off one-fourth to one-third of last year's growth; the cut roots cannot support the full top the first season.

NOTE.—Write for special prices if you want shade trees in quantities for large plantings.

BEAUTIFUL HARDY CLIMBING VINES



LARGE FLOWERED CLEMATIS.

No. 1.—Ramona.

No. 2.—Villa De Lyon.

No. 3.—Henryi.

No. 4.—Jackmanii.

Paniculata — See next page for illustration made from photograph.

Clematis

No hardy flowering climbing vine excels in beauty and effectiveness the finer sorts of Clematis. As a climber for the veranda, a screen for fences, for pillars along the garden walks, for training on walls or arbors or in masses on rockwork, it has no rival among strong growing blossoming plants. The Clematis should be grown in rich, deep, sandy loam and well mulched with rotten manure in winter. The richest sheets of bloom and largest flowers are obtained where it has partial shade and a liberal supply of water at the roots.

PANICULATA (Sweet-Scented Japan).—See cut next page. Of very rapid growth, quickly covering trellises and arbors with handsome, clean, glossy, green foliage. The flowers are of small size, pure white, borne in profusion in September and October, and of a most delicious and penetrating fragrance. Each, small plants, 35c; choice, 50c; large, field-grown plants, 60c and 75c each.

LARGE FLOWERING.—The following kinds bloom early and remain a long time. Very large and showy. Your choice of the following strong, two-year-old, field-grown roots, \$1.00 each postpaid:

Ramona.—Beautiful sky-blue or lavender; very free flowering.

Ville de Lyon.—The best bright red; equal to Jackmanii in size.

Henryi.—Fine large creamy-white flowers. A strong grower and great bloomer.

Jackmanii.—Intense violet-purple; most popular variety; extra large flowers in great clusters.

Duchess of Edinburgh.—A free flowering double white variety; very fragrant.

"MAKE 'EM HOP."—If you will mix a cup full of Wonder Fertilizer with 5 lbs. "C-M" and work both thoroughly into the soil around your climbers you will get wonderful growth and lovely flowers. See pages 38-39.

HARDY CLIMBING VINES—Continued

AMPHELOPSIS

VEITCHI (Boston Ivy, or Japan Ivy).—The most popular and desirable climbing plant for covering brick, stone or cement walls, etc.; when it becomes established at the root it is of very rapid growth and clings to the smoothest surface. The foliage is of a rich olive green during the summer, changing to various shades of bright crimson and scarlet in the fall. In planting cut back to within 6 inches of the ground, so that the new growth may cling to the wall from the bottom up. Strong plants, 60c; extra strong, 75c to \$1.00.

QUINQUIFOLIA (Virginia Creeper, or American Ivy).—This well-known climber is one of the best and quickest growing varieties for covering trees, trellises, arbors, etc.; its large, deep green foliage assumes brilliant shades of yellow, crimson and scarlet in the fall. Strong plants, 60c; extra strong, 75c to \$1.00.

HONEYSUCKLE

A beautiful climber, rapid grower and very desirable; flowers very fragrant, and produced in great profusion.

Your choice of the following, 75c each; extra strong, \$1.00.

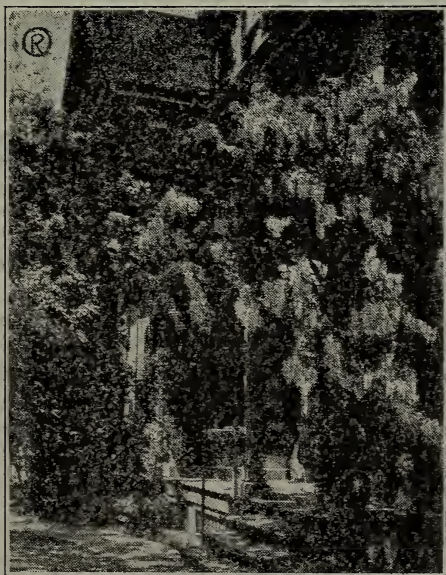
Halleana.—Very popular; almost evergreen; profuse bloomer; flowers white, passing to yellow.

Belgica (Monthly Fragrant.) — Flowers are large; color red and yellow.

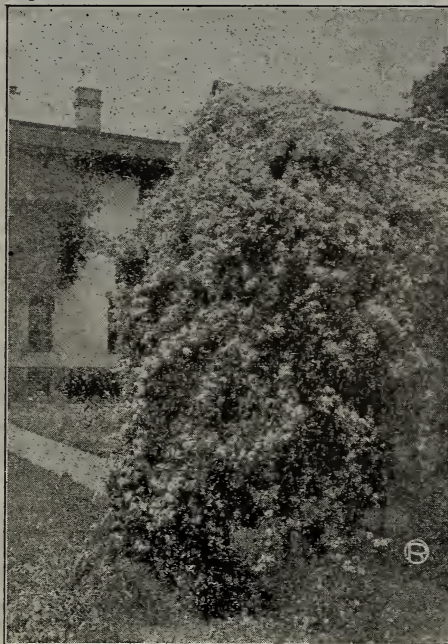
Sempervirens (Scarlet Trumpet Honeysuckle.) — Flowers of a bright scarlet.

IVY EVERGREEN

COMMON ENGLISH. — Thick, leathery, evergreen leaves. Strong grower. Good roots, each 25c; large, 50c.



Wisteria



Clematis Paniculata.
(See page 104)

EUONYMUS RADICANS

One of the finest evergreen vines, with small, rich green foliage. For covering rocky banks, rough walls, tree trunks, etc., also for vases, boxes and borders of beds. Each 50c to 75c; doz. \$5.00 to \$7.50.

VARIEGATA.—Foliage edged with creamy white, which takes on a pinkish tinge in winter. 18 to 24 inches (bushy), 50c to 75c each; \$5.00 to \$7.50 doz.

WISTARIAS

WISTARIAS.—The strongest growing of all hardy vines, easily reaching the roof of a two-story building in a few years if given a chance to climb. Our illustration gives an idea of the value of these vines as a decorative subject. They are as hardy as an oak tree and will grow and bloom in any locality. The flowers appear with the first leaves late in the spring and hang like great bunches of grapes, to the admiration of all who see them. All the varieties are very sweet-scented, as can be attested to by the bees, who are attracted to them when in bloom in the spring.

SINENSIS BLUE.—A very rapid growing, hardy climber; lovely long panicles of dark blue flowers, produced in the most wonderful profusion. Strong vines, each \$1.50.

SINENSIS ALBA.—Like the preceding, but with beautiful white flowers in long panicles. A veritable sheet of bloom in late spring. Strong vines, each \$1.50.

Important.—When planting Clematis and other vines be sure you spread out the mat of fine roots so that the soil comes in contact with all of them, otherwise they will dry out and die. Be very careful with Clematis especially. Use "Wonder" and "C-M," pages 38-39.

Fruit Trees, Bushes, Vines and Plants

OUR SHIPPING SEASON for the above is from November 1 to April 1. Some seasons May 1, although it is too late for best results. We advise late fall or early spring planting while stock is dormant.

HOW WE SHIP.—Unless otherwise instructed we ship by express or freight, whichever is cheapest. In extreme cases and when necessary, 1-year fruit tree, 3 to 4 ft. only, can go by parcel post at an increased cost of 25% on per 10 or dozen prices, or 15c each on single trees, to cover postage and careful packing.

CARE OF STOCK UPON ARRIVAL.—If you are not ready to plant, dig a trench and "heel" in. If ground is frozen put in a cellar and keep roots damp.

NO STOCK SENT C. O. D.

SUBSTITUTION When varieties of the tree ordered cannot be supplied or bought locally, others equally as good of the same season and correctly labeled will be substituted, unless otherwise ordered.

APPLES

Unless otherwise priced	Each	Per 10
One year old, 3 to 4 feet.....	\$.65	\$ 6.00
One year old, 4 to 6 feet.....	.85	7.50
Two year old, branched.....	1.00	9.00
Selected, 2 to 3 year	(Sold out)	

Write for our low prices per 100.

SUMMER VARIETIES.

✓ **RED ASTRACHAN.** Medium deep crimson, flesh white, moderately juicy, with an agreeable rich acid flavor; very productive.

✓ **YELLOW TRANSPARENT.** Medium size, roundish, slightly conical; skin pale yellow, flesh tender, juicy, sub-acid; good.

AUTUMN VARIETIES.

✓ **GRAVENSTEIN.** Large, beautiful yellow, dashed with deep red and orange; tender and crisp, with a highly aromatic flavor; tree very vigorous; very popular sort.

✓ **KING OF TOMKINS COUNTY.** Very large, globular; red striped; vigorous and productive; excellent quality; juicy, rich flavor.

✓ **WEALTHY.** Medium, whitish yellow, shaded with deep red; flesh white, tender and juicy.

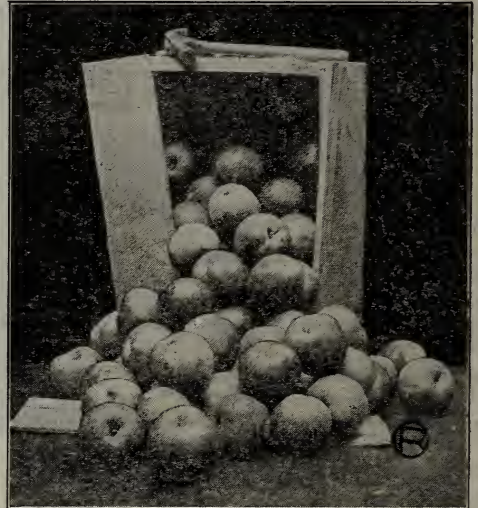
WINTER VARIETIES.

✓ **BALDWIN.** Large, rounded; deep, bright red; very productive; one of the best and most popular winter apples.

✓ **DELICIOUS.** A splendid apple; coming into prominence rapidly. Tree vigorous and hardy and the fruit equals the name in every respect. Fine for market and home use; late; keeps till April.

✓ **NORTHERN SPY.** Large, round, greenish-yellow, stripes of purplish red; flesh white, juicy, brisk sub-acid; valuable for market and cooking.

✓ **ORTLEY (White Bellflower).** Fruit medium to large, yellow; sometimes with a sunny cheek; flesh white, fine-grained, tender, juicy, sub-acid.



✓ **SPITZENBERG.** Large, oblong, yellowish ground with broken stripes of bright red; flesh yellow, juicy with a delicious rich flavor.

✓ **WINTER BANANA.** Winter; yellow; bluish cheek; sub-acid; medium size; a good keeper; a handsome apple; fine flavor, tender and delicious.

✓ **YELLOW NEWTOWN PIPPIN.** Large, skin smooth, golden yellow; flesh firm, crisp, juicy; one of the standard varieties.

✓ **GRIMES' GOLDEN.** Of the highest quality; large, yellow; very productive.

✓ **JONATHAN.** Yellow, covered with red; of excellent quality and heavy cropper.

✓ **RHODE ISLAND GREENING.** Greenish yellow; large; very rich flavor.

✓ **ROME BEAUTY.** Large, yellow, shaded bright red; juicy sub-acid, good bearer.

✓ **WINESAP.** Medium size, deep red; firm, crisp and excellent; widely cultivated.

CRAB APPLES

Each \$1.25; per 10, \$10.00

✓ **TRANSCENDENT.**—Fruit very large, skin yellow, striped with red; the best of its class for cider. September.

✓ **YELLOW SIBERIAN.**—Fruit small, golden yellow. Good variety, ripens in August.

✓ **FLORENCE.**—Size medium, red striped, early bearer; bearing full crop each year; tree immensely productive; juicy and crisp. September.

✓ **HYSLOP.**—Large, dark crimson; popular. A hardy variety. Late.

NOTE.—Order other varieties if you wish. We have many kinds not listed.

CHERRIES

Unless otherwise priced	Each	Per 10
1 year old, 3 to 4 feet	\$.90	\$7.50
1 year old, 4 to 6 feet	1.00	9.00
2 year old, branched—Write, almost out of stock.		

Write for our low prices by 100

NEW — ABUNDANCE (Burbank production).—A seedling of Royal Ann, larger, handsomer, sweeter and more delicious than this great favorite; ripens a week later.

Price, each, 1 year, 4 to 6 ft., \$2.00

BING.—Originated in Oregon; fruit large, dark brown or black; very fine; late; a good shipping variety.

KENTISH (Early Richmond).—Light red, juicy one of the best acid cherries and unsurpassed for cooking purposes; very productive.

LAMBERT.—Fruit of largest size and of fine quality; color deep, rich red; flesh firm and of fine flavor; a fine market variety; ripens two weeks later than Royal Ann.

NEW—THE "BURBANK."—A rich, fine flavored dark red cherry, sweeter than other early varieties; a good shipper, vigorous grower and never failing producer.

Price, 1 year 4 to 6 ft., select trees, each \$2.00.

LATE DUKE.—Large, light red; late and excellent; sub-acid.

PEACHES

Unless otherwise priced	Each	Per 10
One year old, 3 to 5 feet.....	\$1.25	\$10.00

EARLY CRAWFORD.—Very large, yellow; with red cheek; flesh sweet and excellent; our most popular peach for table and canning; freestone.

EARLY ALEXANDER.—One of the largest and best of the extra early varieties; almost freestone; tree bears young.

ALBERTA.—Very large, bright yellow, red cheek; flesh yellow, juicy, sweet; regular bearer; fruit very showy and perfect; freestone early.

EARLY CHARLOTTE.—An improved seedling from Early Crawford, originated at Salem, Ore. This remarkable peach succeeds in Oregon, where many other varieties fail. Flesh yellow, melting and juicy, with a rich and excellent flavor; freestone; ripens ten days after Crawford's Early.

LATE CRAWFORD.—Very large, roundish; yellow, with dark red cheeks; flesh deep yellow, juicy and melting; flavor rich and excellent; very popular; valuable for canning and drying; freestone; September.

HALE'S EARLY.—Skin greenish white, red cheek, flesh white; juicy and sweet; semi-freestone; very early and good.

MUIR.—Large, pale yellow, very firm and sweet; best for drying; freestone; August.

SALWAY.—Creamy yellow, red cheek; flesh deep yellow, red at the pit; rich and sweet; a standard late peach; freestone.



MAY DUKE.—Large, rich, dark red; flesh tender, juicy, and sub-acid; an excellent variety, and one of the earliest of its class.

ROYAL ANN (Napoleon Bigarreau).—A magnificent cherry of the largest size; pale yellow, becoming amber in the shade; richly dotted and spotted with deep red, and with a bright red cheek; flesh very firm, juicy and sweet; tree a rapid grower and immense bearer.

OTHER VARIETIES.—Black Republican, Montmorency, etc.

PLUMS

Unless otherwise priced	Each	Per 10
One year old, 3 to 4 feet.....	\$.90	\$ 8.00
One year old, 4 to 6 feet.....	1.00	9.00
Two years old.....	1.50	12.00
Selected, two year		(Sold out)

Write for our low prices by the hundred.

BURBANK.—Medium; cherry-red, with lilac bloom; flesh yellow, bears young. Late June.

COLUMBIA (Shipper's Pride).—Largest size, nearly globular; brownish purple; rich, sugary, freestone; August.

PEACH.—Very large; skin brownish-red, slightly coarse-grained, but juicy; freestone; very popular as a home and market variety; August.

DAMSON.—Small, oval; skin purple; flesh melting, rather tart; September.

MAYNARD.—Very large, nearly round; crimson-purple, bears young; flesh firm but melting, juicy and delicious; July.

SATSUMA (Blood Plum).—Japanese variety. Quite popular, large dark red from skin to pit, which is small, firm and juicy; tree productive. Early July.

GREEN GAUGE.—BRADSHAW and others.

PRINLEW (New).—A valuable new variety produced by H. A. Lewis. Pronounced by all who have tasted it to be the most delicious of all plums, either raw or cooked. Brings double the price of common kinds on the market. Skin medium red and flesh golden. Firm, but juicy, and stands handling and shipping well. Medium early. Price, select trees, \$2.00 each.

TREE SUPPLY SHORT—There is not enough fruit trees in the Western nurseries to supply the demand. Have your order booked early.

PEARS

Unless otherwise priced	Each	Per 10
One year old, 3 to 4 feet.....	\$.90	\$ 8.00
One year old, 4 to 6 feet.....	1.00	9.00
Two year, branched	1.25	10.00

Write for low prices per 100.

✓ **BARTLETT.**—Large, skin thin, clear, lemon yellow, with soft blush on the sunny side; flesh white, buttery, very juicy and highly flavored; the best summer pear in existence.

✓ **BEURRE BOSC.**—Handsome deep yellow, slightly russet; high quality, tender, aromatic. September.

✓ **FALL BUTTER.**—Favorite fall pear; yellow, smooth and juicy; September.

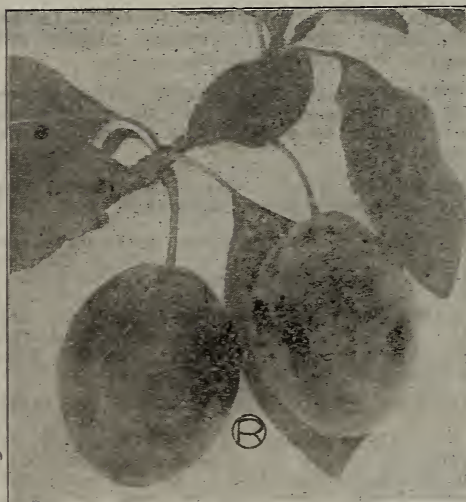
✓ **SECKEL.**—Rich and highly flavored; its highly concentrated, spicy, honey flavor is unequalled; skin brownish green, russet brown cheek; flesh whitish, September.

✓ **BEURRE CLAIRGEAU.**—Large, yellow, shaded with orange and crimson; covered with russet dots; flesh yellowish, buttery, juicy; October-November.

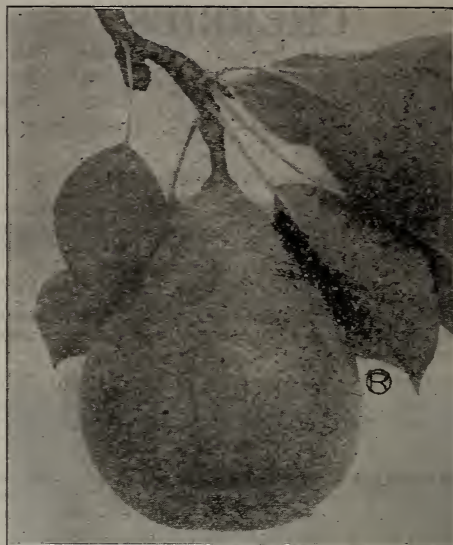
✓ **BEURRE D'ANJOU.**—A large, fine pear, buttery and melting with sprightly, vinous flavor; tree a fine grower and good bearer; one of the very best; October.

✓ **COMICE.**—A splendid commercial variety, being of fine size; good appearance; ships well; yellow, faintly blushed crimson. Oct.

✓ **WINTER BARTLETT.**—Originated in Eugene, Oregon. Fruit large, closely resembling the famous Bartlett in shape and appearance, but ripening considerably later; tender, juicy and melting and with a most pleasing flavor.



Italian



Bartlett

✓ **FLEMISH BEAUTY.**—Large, juicy, rich, very hardy, productive and profitable. September-October.

✓ **WINTER NELLIS.**—Medium; skin yellowish green, dotted with gray russet; flesh yellowish white; fine grained and abounding with juice of a rich saccharine, aromatic flavor; especially adapted to this valley, producing large crops every year; an excellent shipper and good keeper; November-December.

PRUNES

Unless otherwise priced	Each	Per 10
One year old, 3 to 4 feet.....	\$.90	\$ 8.00
One year old, 4 to 6 feet.....	1.00	9.00
One year old, 6 to 8 feet.....	1.50	12.50
Two year old	1.50	12.50

Write for our low prices by 100.

✓ **GIANT.**—New; of immense size, dark crimson on yellow ground; good yielder; flesh firm, rich, sweet, delicious; good shipper.

✓ **HUNGARIAN.**—Very large, dark red; juicy and sweet.

✓ **ITALIAN (Fallenberg).**—Medium, oval, tapering at both ends; dark purple; flesh greenish yellow; separates freely from the stone; best for drying. Most popular.

✓ **PETITE (French).**—Small size, egg-shaped; violet purple; sweet, rich and sugary; very productive; good for drying.

✓ **SILVER.**—Seedling of the Coe's Golden Drop; excellent for drying or canning. September.

✓ **SUGAR.**—Vigorous grower; fruit large and dries quickly; flesh tender and rich in sugar; color dark purple; August.

NEW STANDARD.—Burbank production. \$2.00 Each

RAISE CLEAN, PERFECT FRUIT BY SPRAYING.—Don't let the bugs get started. **SPRAY EARLY.** We offer you a complete line of insecticides and sprayers at low prices. See pages 121 to 124.

APRICOTS

Unless otherwise priced	Each	Per 10
1 year old, 4 to 5 feet.....	\$1.00	\$9.00
1 year old, 3 to 4 feet .....	.90	7.50

MOORPARK.—Very large, yellowish-green; brownish red on the sunny side; flesh bright orange; fine for canning and drying; freestone.

LEWIS.—One of the largest apricots known; handsome in appearance; flavor excellent. If you have room for only one apricot tree, plant the Lewis.

ROYAL—TILTON—BLENHEIM.—Rich and juicy.

BIRDS AND PETS

We are Northwestern headquarters for Birds of all kinds, Puppies, Kittens, Rabbits, Cavies, etc., Bird Cages, Pet Stock Foods and Supplies. **SPECIAL PET STOCK CATALOG ON REQUEST.**

QUINCE

1 year old	\$1.00	Each
2 year old, branched.....	\$1.50	

CHAMPION.—Large, yellow; flesh cooks very tender; flavor is most delicious; more productive than the orange, ripening two weeks later.

PINEAPPLE.—The fruit in form and size resembles the Orange Quince, but is smoother and more globular. Makes a superior jelly. Can be eaten raw, and is said to cook as tender in five minutes as the best cooking apple, possessing a most exquisite and delicious flavor, not equaled by any other quince. September.

Everett, Wash., March 30, 1920.

Routledge Seed & Floral Co.

Gentlemen: Received seeds, bulbs, roses and all O. K. and I am very much pleased with all you sent.

Respectfully,

MRS. WADDINGTON.

CURRANTS

Low prices by the thousand.

Unless otherwise priced	Each	12	100
One year old.....	\$.35	\$3.50	\$20.00
Two year old.....	.40	3.40	25.00

Extra large selected bushes.....Sold Out

BLACK NAPLES.—Very large, black; valuable for jams and jellies.

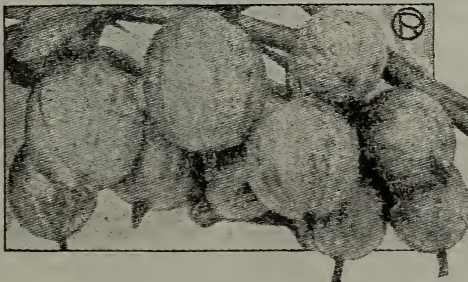
CHERRY.—Large, deep red; rather acid; fine for preserving; valuable market variety.

FAY'S PROLIFIC.—A new Currant, larger than the Cherry; has less acid, and is more prolific.

WHITE TRANSPARENT.—Large; valuable for the table and market; the finest of the white sorts.

PERFECTION.—New; a late introduction of great merit. Our grower says: "You cannot say too much about the good qualities of this grand new sort." So, whether you plant ten or a hundred, plant a good proportion of Perfections, which is the largest, most productive, finest-flavored, rich, mild, sub-acid; plenty of pulp; few seeds, healthy, bright red currant to date.

BY PARCEL POST.—Gooseberries and Currants: Add 10c per bush, 60c per doz., to cover postage and careful packing.



Oregon Champion.

GOOSEBERRIES

Unless otherwise priced. Each	12	100
One year old.....	\$.35	\$3.50 \$20.00
Two year old.....	.40	4.00 25.00

Extra SelectSold Out

Write for our low price per 1,000.

OREGON CHAMPION.—Berries large, round and pale green; fine for table use and pies; hardy, strong, and a very prolific bearer; most popular and best commercial variety. Low prices by the thousand. Write.

RED JACKET (Josselyn).—Of large size, smooth, prolific and hardy; of best quality; a wonderful cropper, with bright, clean, healthy foliage.

The Garden Guide—New

Tells all about planting, pruning, and the care of small fruits and vegetables. Look it up, page 128.

FERTILIZE the ground and **SPRAY** the fruit if you want a large, profitable, satisfactory crop. See Fertilizers, pages 38-39; Sprays, ask for catalog.

BLACKBERRIES

Unless otherwise priced	Each	Doz.	100
One year	\$.20	\$2.00	\$15.00
Extra strong .....	.25	2.50	20.00

BY PARCEL POST. — Add 7c each, 50c per doz., extra to cover postage and careful packing, if wanted by mail.

LAWTON.—The favorite market variety; large, good quality, uniform, hangs long on vine when ripe, productive and profitable. The most generally planted for commercial markets in the Pacific Northwest. Oregon's most popular kind.

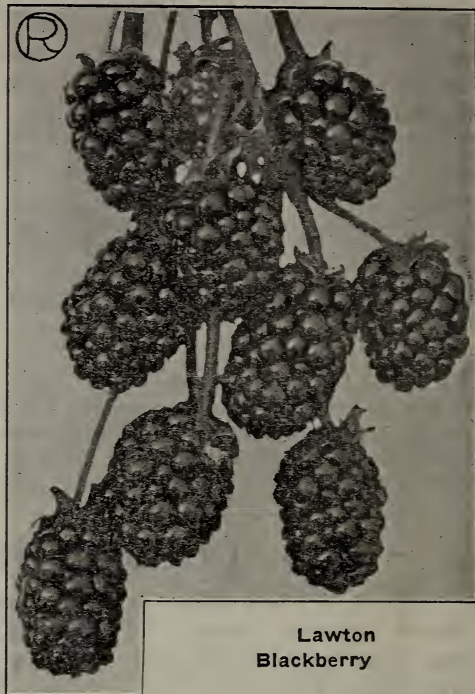
ELDORADO.—New. Very vigorous and hardy; yield is enormous; berries large, jet black, borne in large clusters, and ripen well together; sweet, melting and pleasing to the taste; no core, and keep eight or ten days after picking with quality unimpaired.

EVERGREEN.—Introduced from Oregon; beautiful lacinated foliage, which it retains all winter; berries long, black, sweet, rich and delicious; ripens from July to November; a fine berry for family use.

STRONG PLANTS each 15c; doz., \$1.25; per 100 \$10.00. Low price per 1000.

HIMALAYA GIANT.—A rampant grower of a trailing nature; a heavy cropper; the berries are large, juicy, coreless, sweet and firm, with a delicious aromatic flavor. Its deep-rooting qualities enable it to produce a large, firm berry even in a very dry season.

STRONG PLANTS each 20c; doz. \$2.00; 100 \$15.00.



Lawton
Blackberry

Plant a Few of These Delicious, Heavy Producing, Trailing Berries

Fertilize well and trail them on the garden fence or over a trellis.

Loganberry

In great demand again for canning and drying. An exceedingly strong grower and an enormous bearer. Color, dark red. Has a pleasant, vinous flavor, delicious and peculiar to this berry alone; fruit ripens early. It is excellent for the table, eaten raw or stewed, and for jelly, jam or "juices," is without an equal.

TRANSPLANTS (2 year)—Prices, each 40c; doz. \$4.00 POSTPAID. Not prepaid, each 35c; doz. \$3.50; 100 \$25.00. Stock is very scarce this spring. **NOTE.**—We will have plenty for fall delivery of 1921 or spring of 1922—write.

TIPS (1 year)—We offer this spring "tips" that we can recommend extra strong and well rooted. We guarantee they will reach you in excellent condition and open up to your entire satisfaction. Delivery season opens April 1.

PRICES, Prepaid.—Each 20c; doz. \$2.25; 100, \$12.50. Not prepaid, doz. \$1.75; 100 \$12.00; 1000 or more @ \$75.00. (Book your order early, our stock of these limited—we will not handle puny plants like those generally offered.)

Burbank's Phenomenal

A most desirable, refreshing berry for the home garden. Of a bright crimson raspberry color; very productive, and most delicious of all berries for pies, canning, jellies or jams. Sweeter than the Loganberry and fine as a fresh table fruit. Prices, same as Logans above.

Mammoth Blackberry.—A rampant grower of trailing habit. Berries, large (often 2 1/4 inches long), sweet, juicy and delicious, seeds and core small and soft. Enormously productive and early. Excellent home berry, too soft to ship well. Same price as Logans above.

Thornless Blackberry

The thornless blackberries are of recent introduction. They have proved to be of great value, all that has been claimed for them. No thorns, thereby easier and quicker picked, more productive, more profitable; trailing nature. Try them.

CORY THORNLESS.—Claimed to out yield and out class any other blackberry. Berries same shape and size of "Mammoth," richer and sweeter, having a flavor like the wild berry; superb for jelly, jams, wine or served fresh; small core, almost seedless but firmer than above, and will ship well. **STRONG PLANTS**, each 35c; 10 \$3.00; 100 \$25.00.

BURBANK'S THORNLESS.—Medium early to late. Berries round, jet black, good size and come in large clusters over a long season. Fine flavor, sweet and luscious; good for canning or shipping. **STRONG PLANTS**, each 35c; 10 \$3.00; 100 \$25.00; quantity price on request.

Dewberry

LUCRETIA.—Fruit ripens between the raspberry and blackberry. Berries large, handsome, sweet and luscious; trailing vines. **STRONG PLANTS**, each 25c; per doz. \$2.50; 100 or 1,000 price on request.

Write for "commercial quantities" of Berry Plants, stating amounts wanted.

RASPBERRIES

Unless otherwise priced	Each	12	100
One year	\$.15	\$1.00	\$4.00
Extra strong .....	.20	1.50	5.00

Very low prices per thousand.

BY PARCEL POST.—Add 5c each, 35c a doz., extra to cover packing and postage.

Red Varieties

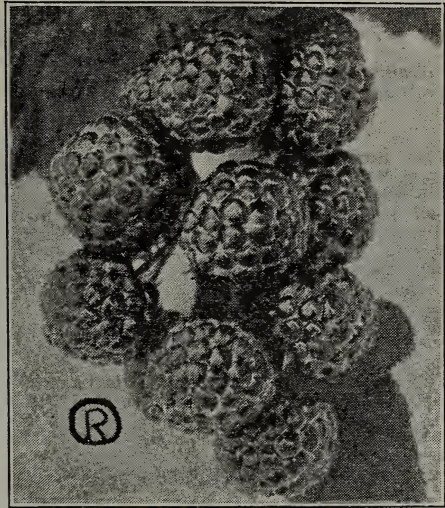
CUTHBERT.—Berries very large, deep rich crimson; good for shipping; the most popular of all commercial sorts of raspberries; stands the sun and heat well; flavor rich, sweet and delicious; mid-season. Very low prices per 1000. Write.

MARLBORO.—Very large and earlier than Cuthbert; beautiful, bright scarlet; good quality; hardy and productive.

GOLDEN QUEEN. — A handsome yellow fruited raspberry; excellent quality.

ST. REGIS (New).—The St. Regis ever-bearing red raspberry. A valuable home variety on account of its long season of fruiting. It is a fine berry in every respect, being hardy, very productive, of good color and fine flavor. It produces well in the early season and you get the fall crop extra.

Price, 15c; doz. \$1.25; per 100 \$8.00. Select, extra strong, each 20c; doz. \$1.50.



Black Raspberries

	Each	12	100
Two year	\$.20	\$2.00	\$15.00

Low prices per 1,000. Tips in the spring very cheap.

BY PARCEL POST.—Add 7c each, 50c a doz., extra to cover packing and postage.

PLUM FARMER.—Excellent, very productive, maturing the entire crop in a short period, making one of the most profitable early market sorts. The berries are thick-meated, firm, with a bloom similar to Gregg. Berry large, fine flavor, and very attractive when picked.

GREGG.—A standard and well known market sort. Very productive, large size, firm meaty berries, covered with heavy bloom.

KANSAS.—Strong, vigorous grower, early and productive. Berries of good size and color. Firm and of best quality.

CUMBERLAND.—Very large; mid-season.

GRAPES

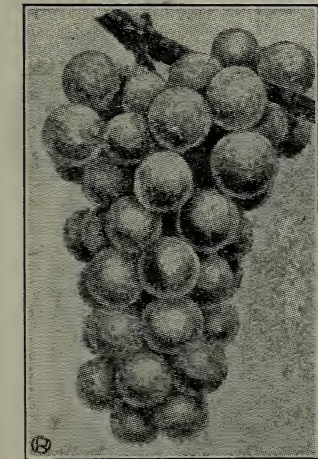
Unless otherwise priced	Each	12	100
One year old	\$.35	\$3.00	\$20.00
Two year old .....	.40	4.00	25.00

CAMPBELL'S EARLY.—Clusters large; berries large, round, black, with purplish bloom; flesh firm, but tender; flavor rich, sweet and slightly vinous. Early.

MOORE'S EARLY.—Bunch medium; berry large, resembling Concord, but more pulp, and is earlier.

NIAGARA.—Berry large, pale greenish yellow; flesh tender and sweet; productive.

WORDEN.—Bunch very large and compact; berry large, black; an improved Concord; earlier and excellent home variety.



BY MAIL. — Add 5c each or 50c doz. to cover packing and postage.

CONCORD. — Large, round, black grape, bunches compact, quality only fair but it is well known and very popular.

DELAWARE.—Best of our native grapes; grows freely and is perfectly hardy; ripens early; berries small, light red; sweet.

EATON.—A strong, sturdy grower; fruit is large and handsome, firm, and of the highest quality. Deep rich red when fully ripe, of sprightly exquisite flavor.

OTHER GRAPES.—We list the most popular hardy sorts for general use, but can supply Isabella, Catawba, Flaming Tokay, Muscat, Black Hamburg and others at prices above.

SELECTED
STRAINS**STRAWBERRY PLANTS**NONE
BETTER

Our strawberries are carefully grown, trimmed and packed in the best manner to insure their arrival in good, fresh condition. If you want good, strong, healthy, vigorous plants and true to name, send to us. Our prices are right; our plants are O. K.

Don't use plants from old berry fields. Buy our healthy vigorous, properly grown plants. The most profitable kind.

WELLINGTON MARVEL.

This new variety was originated by Wellington S. Butler of Merlin, Ore., a strawberry specialist. We have the exclusive sale of all his plants, and take great pleasure in introducing this really superb and meritorious new variety. In all our experience and observation, we have never seen the equal of the "Marvel" in color, shape, flavor and good qualities. The ripe berries command instant attention on account of the bright, fresh, delightful appearance and fragrance.

The plant has a multiple crown system, which, under restriction, stools up to mammoth proportions and circles itself with a massive wreath of large crimson berries, sparkling like rubies in the sunlight.

When we observe the penetrating power of the Marvel's enormous root growth, we cease to view the festive array of the striking red beauties with astonishment, and think of the persistent toil and painstaking care exercised by the originator for the purpose of eliminating objectionable features and placing on the market an ideal strawberry, absolutely immune from all lopsided, scrubby, defective specimens.

PRICES FOR 1921

Three for 25c; 12 for 75c; 100 for \$4.00, postpaid; NOT PREPAID, 100 for \$3.50; 1000, \$30.00.

BEWARE! To protect our customers, all our Wellington Marvel strawberry plants will be marked with a printed wooden label, as follows: Originator's Stock Wellington Marvel on one side and our name, Routledge Seed & Floral Co., on the other. Plants not marked thus ARE NOT OUR TRUE STOCK.

Wellington's Marvel is almost frost-proof. Frosts that have ruined other varieties have not harmed the Marvel. The foliage is heavy and spreading, and each fruit-stalk of blossoms or fruit seems to be perfectly covered and protected. Fruiting season is very early, long and marvelously productive. A second crop will come on in the fall, lasting until winter.

The ruddy glow of the Marvel spreads evenly and leaves no white tips. It is unequaled for table and excellent for canning. Heat does not impair its quality, but intensifies the color to deep red. The flavor of the Marvel is distinct and, when once tasted, strawberry lovers will pay a premium for it. For private trade it is a wonder, as the flavor when fully ripe is incomparably delicious and sweet. For fruit juices, light wine or preserves the Marvel will demand the "top" prices.

BEST BY TEST.—We have, in the field, during the fruiting season, tested the "Marvel" with Clarks, Magoons, Oregon, Gold Dollar and such varieties, and we claim there is no comparison at all in beauty, flavor and production. The "Marvel" is in a class by itself, and head and shoulders above all. A trial will convince you.



Wellington S. Butler
Strawberry Specialist. Originator of the
"Marvel"

Mr. Butler has produced hundreds of new seedlings in recent years, but it has been his policy to allow no new variety to be sold until it proved its superior merits. He certainly produced a ruby "gem" in the "Marvel."

STRAWBERRY

PLANTS

CONTINUED



OREGON IMPROVED.—One of the finest and most satisfactory strawberries ever introduced. It always looks bright, fresh and attractive. The berry is very large, firm and handsome; rich, dark red, extending to the center. The flavor is rich, sweet and delicious. For table use and canning, it cannot be surpassed. The "Oregon" ripens early and continues in bearing until late in the season.

MARSHALL.—One of our best Western varieties and very popular wherever known. Marshall is one of the blood-red varieties that never fails to attract the eye and to satisfy the taste. It is deliciously sweet, generously prolific, and is in every way an ideal variety for extensive planting or home garden. Excellent for canning, as it holds its color, shape and flavor.

MAGOON.—Berry large, fine and excellent; sub-acid flavor; bears heavily and throughout the season.

WILSON.—A heavy bearer of fine, moderate-sized berries; sharp acid flavor. Many prefer this sort for canning.

PRICE LIST.—Your choice of above varieties except "Trelba," **PREPAID** doz. 35c; 50 plants, \$1.00; 100 \$1.75. **NOT PREPAID**, doz. 30c; 50 plants 75c; 100, \$1.25; 1,000, \$10.00; 500 plants all one kind at 1,000 rate. Ask for special prices in 3, 5, 10 or 25 thousand lots.

The New Everbearing Strawberries

This "new class" of strawberries is becoming more popular each year. Their long fruiting season and the grower's ability to secure berries when the market is high is their real value. Left alone they will flower and fruit the whole season, but to secure a large crop in the late fall keep the blooms off until the last of June. If cultivated, watered and the runners kept off, new plants will produce berries abundantly three months after planting and continue until fall, and the following season give a wonderful crop. Read "Hints on Planting and Care" of everbearers, next page.

Your choice, doz. 60c; 25 plants, \$1.00; 100, \$3.00, prepaid. Not prepaid, \$2.50 per 100; \$20.00 per 1,000. Write for special prices in quantity.

Progressive Everbearing

Progressive is a strong upright grower, deep rooter and great drought resister. Berries are medium large, rather dark-red in color and of excellent quality. Ripens early and continuously, the fall crop is always profitable. Extremely hardy, bearing until the ground freezes. A valuable market variety, probably the most popular in the class.

Don't Overlook New Giant. Next Page.

GOLD DOLLAR.—One of the earliest berries on the market. Fruit good, medium size, and attractive; rather tart; fine flavor; foliage, heavy, large and spreading, which protects the blooms from early frosts.

CLARK'S SEEDLING.—The berry that has made Hood River famous; excellent shipper; berries large, firm and of delicious flavor; vines bear large crops; is especially adapted to the Pacific Coast.

ETTERSBERG.—A new late variety. A great favorite in some sections among shippers and canners. We can supply most any quantity this season.

Trelba

This variety is highly recommended and in growing demand. It is very desirable as a canning berry, in fact cannerymen are advising growers to plant more of this variety as it remains firmer and holds its color when canned.

Trelba is medium size, perfect shape of excellent quality and dark red in color. Plants hardy, well protected and heavy producers. Prices same as the everbearers below.

Superb Everbearing

Superb grows low and spreading. The berries are produced beneath the foliage which protects them from frost and bad weather conditions. Some claim Superb is not so productive as Progressive, but its berries are larger, brighter red in color and of more delicious flavor. Good keepers and shippers, and demand the "top" or fancy prices.

DON'T be misled by the fine catalogs sent out from the East. Buy Western grown plants and Western varieties, better berries than ever grew in the East. We know it!



Three Fruit Stems of New Giant No. 999 showing blooms, green, and ripe berries. An everbearing of sterling merit.

Giant No. 999 NEW EVERBEARING STRAWBERRY

Description.—The originator of this superb new everbearer writes us as follows:

"After ten years of breeding of the new race of Everbearing Strawberries, we have succeeded in originating a new variety that is far ahead of the older sorts in every way.

The Giant No. 999 plants are strong and sturdy and with the peculiar bluish green cast to the leaves that makes them the most heat and drouth resistant of any strawberry we have ever grown. The root system is immense, going down into the ground to depth of 12 to 15 inches, thus getting them down into the moist subsoil, enabling the plants to go right on bearing big crops of berries during the hot, dry summer months. The berries are extra large in size. They have a flavor and a fragrance that is different from any other berry. As you bite into one of the big fellows you can shut your eyes and imagine you are eating a new fruit, having the flavor of many fruits with the wild strawberry flavor blending and predominating over all. Talk about your strawberry shortcakes! The Giant No. 999 berries open up new fields of enjoyment along shortcake lines.

One bed of New Giant No. 999 yielded an average of 186 pint boxes of big, luscious strawberries to the square rod the same year the plants were set. This is at the rate of 29,760 pints per acre.

Up to three years ago we figured that our stock of Giant No. 999 plants had then cost us \$500.00 each. Since then we have used every effort to propagate these plants as rapidly as possible and have succeeded so well that our prices are very reasonable, considering the quality and value of the plants themselves."

We say this new berry is as big a success in the West as it is in the East where it was originated. One of our most successful Oregon strawberry growers has given it a thorough test and claims it is a wonder. He intends to discontinue the growing of other Everbearers as the Giant No. 999 is so much better. It's a heavy bearer, a good canning berry and makes delicious jelly and jam, and it holds its bright clear red color.

We have investigated this new berry, tested them for eating and canning and have decided to offer them to our customers. It certainly is wonderfully productive and of larger size than other everbearing varieties, growing under the same conditions. Our local grower

claims it will stand more hot, dry weather than any other—all through last September—he was sending large shipments of ripe berries to the Portland market and getting \$6.00 per crate.

Stock limited for this year, so order early.

Prices, Postpaid: 4 for \$1.00; dozen \$2.50, 25 for \$4.00; 50 for \$7.50; 100 for \$12.50; 250, \$25.00.

Hints on Planting and Care of Everbearing Strawberries

There is no mystery about these new everbearing plants and it is just as natural for them to grow and fruit all summer and fall as it is for the common varieties not to do so. The plants are set and cared for the same as the ordinary spring varieties, except that you can start picking berries very soon after plants are set, instead of waiting until the next year. They are successfully grown by the HILL SYSTEM or in MATTED ROW. For the largest yield of big berries we like the Hill system the better and especially so where grounds are limited in size. For instance, a rod square bed with plants set 18 inches apart in row and with rows 20 inches apart will take just 110 plants. Pick off all blossom stems as they appear for the first four weeks and also cut off all runner leads as they appear. This causes the mother plant to throw up new crowns, which means more fruit stems and more and more berries. Let the runners grow around the outside of the bed for new runner plants, which should be dug and used to fill vacancies or weak plants and to set out new beds. A good way is to set a new bed every year and then let the old bed bear as long as it is profitable, which will be from two to six years, depending on the variety and other conditions. By getting a new bed each spring, you are sure of having an abundance of fine, big berries.

In order to get a continuous and large crop of large berries all summer long and a big crop in the fall, everbearing plants need water and plenty of it. A thorough sprinkling or irrigation once a week is better than a light watering every day.

A mulch of clean straw, grass or hay between the rows or around the plants during the fruiting season will keep the berries clean and free of dirt and help greatly to preserve the moisture in the ground. Don't forget this.

Why Not Raise Some Asparagus and Rhubarb?

Every garden large or small should have at least a small supply. If you want special information on culture of these roots, we have **ASPARGUS CULTURE**, by Hexamer, 174 pages, \$1.25, and **NEW RHUBARB CULTURE**, by Morse and Fiske, 130 pages, \$1.25.

ASPARGUS ROOTS**Buy Roots and Save 2 to 3 Years**

One of the earliest and finest of spring vegetables; very easily grown. A bed once planted is good for years if properly attended to and well manured. Set plants 18 inches apart, in rows 3 feet apart.

ONE YEAR OLD.—Prepaid, doz., 35c; 50, 75c; 100, \$1.25. Not prepaid, doz., 30c; 100 \$1.00; 1,000, \$8.00.

TWO YEAR OLD.—Prepaid, doz., 75c; 50 \$1.50; 100, \$2.50. Not prepaid, doz., 50c; 100 \$2.00; 1,000, \$12.00.

THREE YEAR OLD, SELECT.—Grown especially for our private trade; large and strong for quick crop. Prepaid, doz., \$1.00; 50, \$2.50; 100, \$3.50. Not prepaid, doz., 85c; 50, \$2.00; 100, \$3.00.

Carrolls, Wash., March 29, 1920.

Routledge Seed & Floral Co.

Gentlemen: We were very much pleased with our Rhubarb plants which we received in good shape.

Yours truly,

MRS. A. H. HINES.

HOP ROOTS**Oregon's Famous English Cluster Hops.**

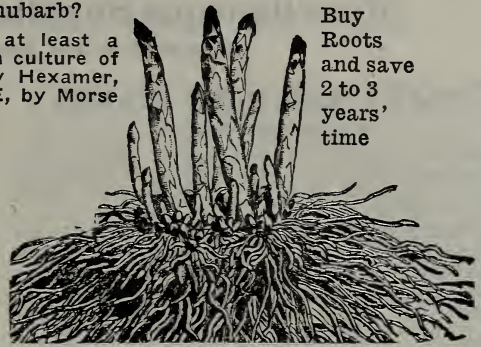
Regular Root Cuttings, 10c each, 3 for 25c. \$1.00 doz., postpaid. Low prices by the thousand.

Crown Roots give quicker results; each 15c; 2 for 25c; doz. \$1.25, postpaid.

HORSE-RADISH ROOTS

Plant in the spring 18 by 24 inches apart. Set the whole root small end down.

Prices: 2 for 15c; 50c per doz.; \$2.50 per 100. Low prices by the 1000.



Buy
Roots
and save
2 to 3
years'
time

RHUBARB**PIE PLANT—WINE PLANT**

Plant in the fall or early spring from 3 to 4 feet apart, in the richest soil you have, or can prepare. New book: "Rhubarb Culture," a complete guide to dark forcing and field culture (well illustrated), 130 pages, \$1.25.

Banwine Rhubarb—A Moneymaker

This comparatively new and very profitable rhubarb is claimed by our grower to be superior to all ordinary varieties and unequalled by any known marketable sort. The trueness of the strain is unquestionable, as it is only propagated from root diversions or growing buds from stock, that shows the superior merits of the parent stock.

Banwine is a quick, very early grower, producing very freely giant heavy stalks, that are exceedingly tender, brittle and of the finest flavor and color. A "peerless" rhubarb for home gardens or commercial plantings.

We supply divided roots, the only safe way. Seedlings do not come true.

SINGLE EYE — Postpaid, each 20c; doz. \$2.00; Not Postpaid, each 15c; doz. \$1.50; 100 \$10.00.

DOUBLE EYE.—Postpaid, each 25c; doz. \$2.25. Not postpaid, each 20c; doz. \$2.00; 100 \$15.00.

FOUR EYE.—Makes a big root in 1 year. Each 50c; doz. \$5.00; not prepaid.

Victoria Mammoth

A standard and popular variety, large and of excellent quality. We offer a select strain. Beware of seedlings.

One Year.—Each 12½c; doz. \$1.25, postpaid. Not prepaid, each 10c; doz. \$1.00; 100 \$7.50.

Two Year.—Each 15c; doz. \$1.50, postpaid. Not prepaid, each 12½c; doz. \$1.25; 100 \$10.00.

Transplants—Grown one year from single-eye large vigorous, healthy roots, each 35c; doz. \$3.00 not prepaid.

Large Clumps (4 buds up), **NOT PREPAID**, 50c, 75c and \$1.00 each.

Rhubarb.—If wanted in larger quantities, write for special price.

COW MANURE.—It is troublesome, disagreeable and expensive for the city gardener to get it. We offer "C-M," THE REAL PRODUCT, in most convenient form, free from weeds. Read page 38 carefully. YOU NEED THIS AND ALSO "WONDER," page 39, FOR YOUR ASPARGUS AND RHUBARB.

Miscellaneous Supplies and Tools You Need

Remember to add postage if wanted by mail

PLANT AND ROSE STAKES

Prices Not Prepaid

CEDAR—Round; painted green, white top; last and look well. Per doz. 3 ft. \$1.00; 3½ ft. \$1.25; 4 ft. \$1.50; 5 ft. \$2.00; 6 ft. \$2.75; 8 ft. \$4.00.

BAMBOO—Inexpensive and very desirable for pole beans, etc., or flowering plants or shrubs.

Prices per dozen: 2 ft. 25c; 3 ft. 30c; 4 ft. 40c; 5 ft. 50c; 6 ft. 60c; 25 per cent less for pencil size green. Write for low price by 100 or 1,000.

Note.—State for what purpose you want them, as we have them stained green, pencil thickness, and natural color, ¾ to ⅝ inch thick.

WOODEN LABELS

The tree and pot labels we offer below are strictly No. 1 labels, smooth and well made. The painted labels are "really painted," not dipped in oil. Ordinary lead pencil writing on the painted labels is always readable; it will not wash off.

Tree Labels

P. P.	Wgt. 4 lbs.	25	100	M
Painted, copper wired	\$0.25	\$0.60	\$3.50
Unpainted, copper wired20	.50	3.00
Unpainted, iron wired20	.40	2.50

Pot Labels

Wgt. per M.	25	100	M
Painted, 4 in. (P. P. 3½ lbs.)	\$0.20	\$0.50	\$2.75
Painted, 5 in. (P. P. 4½ lbs.)	.25	.60	3.25
Painted, 6 in. (P. P. 5 lbs.)	.30	.70	4.00

Garden Labels

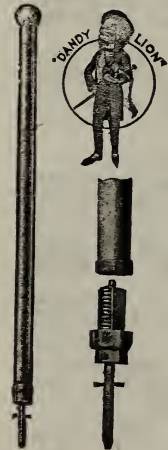
Same style as above, but thicker and wider.

Wgt. per M.	25	100	M
Painted, 8 in. (P. P. 15 lbs.)	\$0.50	\$1.75	\$12.00
Painted, 9 in. (P. P. 17 lbs.)	.65	2.00	14.00
Painted, 10 in. (P. P. 20 lbs.)	.75	2.25	16.00

DANDELION AND WEED KILLER

A new, simple, yet practical tool that is automatic, quick and sure in its work. Cutting or pulling out the tops of weeds only makes the roots grow more vigorously; digging them out with a knife gives one the backache or lame knees, therefore use the "Dandy-Lion" same as a cane.

You simply fill it with solution of gasoline or weedkiller, put the point on the root crown of the weed, press until the cross bar on the point (see cut), releases the fluid. (Directions tell how.) The solution kills the root and all.



Spring valve and base removable. Length, 34 inches. PRICE, NO. 1, Brass Covered, \$1.75; NO. 2, Solid Brass, \$2.00. Weight packed, 3 lbs.; add postage.

POTS AND SAUCERS



No. 1 No. 2 No. 3 No. 4
Fig. 1—Fern Dish Filler; 2—Bulb Pan; 3—Azalia or Fern Pot; 4—Standard Flower Pot. All styles same prices.

Size	Each	Doz.	Saucers Each
2 inches	.....\$0.03	\$0.25	
2½ inches30	
3 inches35	
3½ inches40	
4 inches50	\$0.05
5 inches85	
6 inches	1.25	.07
7 inches	1.80	
8 inches	3.00	.10
9 inches	5.00	.15
10 inches	7.00	.20
12 inches	12.00	.30
15 inches	20.00	.50

Prices by express or freight. Not mailable.

JARDINIERES, ETC.

We carry in stock a large and complete assortment of the best styles and latest designs. Limited catalog space will not permit us to illustrate and describe them.

RAFFIA

Natural color, highest quality. Very scarce. Price per lb. 60c; 5 lbs. \$2.50; 10 lbs. \$4.50; postage extra. Write for quantity price.

OREGON GREEN MOSS

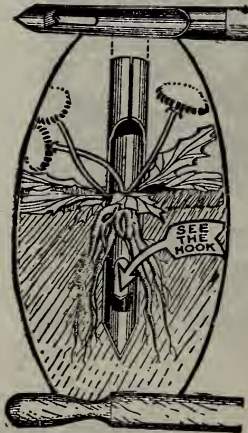
For hanging baskets, etc. 3 lbs. 25c; 2-bushel sack, \$1.50; per bale, \$4.50.

WIRE HANGING BASKETS

Well made of heavy wire and painted green. 6-in., 20c; 8-in., 25c; 10-in., 35c; 12-in., 40c; 14-in., 50c. (Not mailable.)

HALL DANDELION PULLER

Here's a tool that gets the dandelion, roots and all, and operator stands up. No wet knees or aching back.



Directions. — Just push the blade down in the ground close to the weed, press towards the weed and pull up. A patent hook near point of blade does the trick. A slot prevents dirt from clogging the hook. Study the illustration carefully. Is made of polished steel and will last a lifetime. The only successful dandelion weeder to date. Wooden handle 30 inches long, steel part 8 inches. Price 75c; postpaid, 85c.

We give the P. P. (Parcel Post) weight so you can add postage if wanted by mail. Don't forget to send it extra.

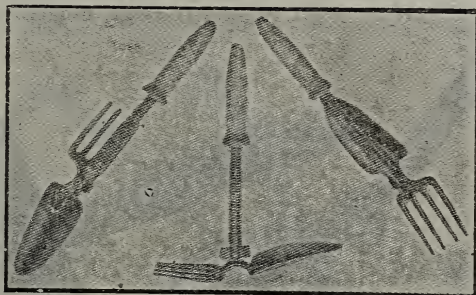
Miscellaneous Supplies and Tools You Need

Remember to add postage if wanted by mail.



RITTENHOUSE BROADCAST SEEDER NO. 3

A great favorite with farmers the world over. Works easily, automatic stirrer, anti-clogging, all-steel frame, strong cogs and gear. The lightest yet strongest* and best. For seed or fertilizer. Sack holds ½ bushel. Descriptive pamphlet on request. (P. P. wgt. 4 lbs.) Price \$3.00.



"ALCA" GARDEN TOOL

Best all-round garden tool made. This remarkable combination tool is a trowel, fork, hoe, weeder and dibble—all in one. A spring releases the particular tool you desire. Light but strong and handles nicely. (15 inches long—see cut.) Price 75c, postpaid 80c.

GARDEN TROWELS

Good, reliable, cheap trowels, 25c to 50c; extra strong and best made, 60c to \$1.00. Mailing and postage 10c extra.

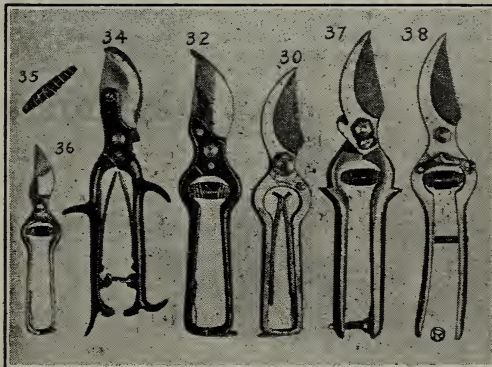
HAND WEEDERS

Several good styles—Diamond, 35c; Beet, hoe style, very good, 25c; Fork, 35c; Excelsior, five-claw, 35c; and Lang's, 25c. Postage and packing 10c extra.

HIGH-GRADE PRUNING SHEARS

All prices postpaid

- No. 36. Nickel plated 6-inch, fine for cutting roses and light work, \$2.25.
- No. 34. Same as illustration, except spiral spring; good, cheap shears. \$1.25.
- No. 32. Strong, durable, black handle, polished blade; 8½ inches. Price \$1.50.
- No. 32½. Nice finish, half polish, good blade; handles nicely; same style as No. 32; 9 inch. \$1.75.
- No. 33. Same style as No. 32, full polish; very strong and serviceable 9 inch. Each, \$2.50.
- No. 30. Full polish, double brass springs, lock nut, one extra blade; steel band lock, Swiss style, 8 inch, \$3.50; No. 30, 9 inch, \$3.75. Nos. 37 and 38 not obtainable now.



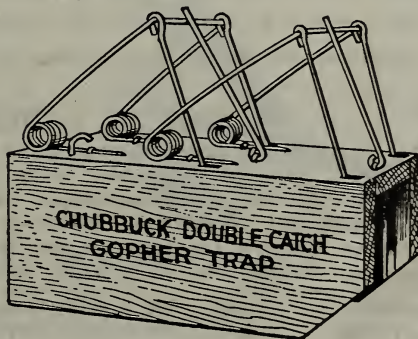
MOLE AND GOPHER TRAPS

EUREKA CLINCH TRAP.—(See cut.) An inexpensive but efficient wire trap. Easy to set and sure to catch. Set a trap each way in the runway and you catch 'em going or coming. Price 40c; two for 75c; doz. \$4.00, postpaid.



Eureka Mole Trap

CHUBBUCK DOUBLE CATCH TRAP. — (See cut.) This box trap is to be set in the runway. It has double steel springs that are sure to catch and hold either small or large gophers. Simple, safe and sure. Price, \$1.00; postpaid, \$1.10.



TREE PRUNERS

Long handle tree pruners indispensable for pruning tall trees.

Reliable make, with spring; 6 feet, \$1.75; 8 feet, \$2.00; 10 feet, \$2.25; 12 feet, \$2.50. Cannot go by mail. Extra blades 60c each, postpaid.

Miscellaneous Tools That Every Gardener Needs

Note.—We give the P. P. (Parcel Post) weights so you can add postage if wanted by mail. Don't forget to send it extra, otherwise we will express them.



Hall's No. 1

No. 5

No. 6

No. 4

HALL'S GARDEN TOOLS

Very popular, handy, light and good.

HALL'S NO. 1.—This has 5 adjustable steel spring teeth or cultivators. Spread 7 inches; length 6 inches; height 6 inches; 4-foot handle. (P. P. wt. 3½ lbs.) Price \$1.50.

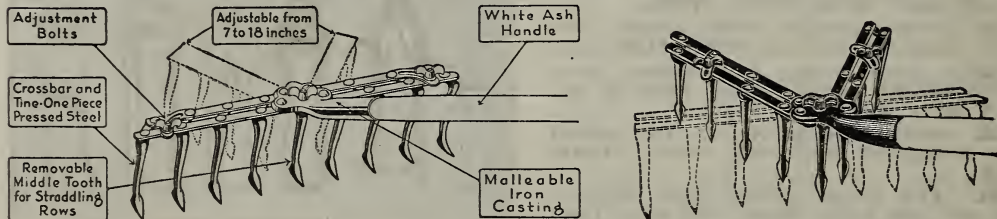
HALL'S NO. 2.—Same as above, only 3 prongs. A smaller and lighter tool for small gardens or narrow rows. (P. P. wt. 2 lbs.) Price \$1.25.

HALL'S NO. 4.—A double tool; a square hoe blade 4½ inches wide on 1 side and 2 cultivator teeth on other end. Full length handle. (P. P. wt. 2½ lbs.) Price \$1.25.

HALL'S NO. 5.—A double tool; a square 3-inch hoe tapering to a point on other end. Full length handle. (P. P. wt. 2¼ lbs.) Price \$1.00.

HALL'S NO. 6.—A combination tool; a 6-inch hoe blade on one side and a 4-tooth hoe or rake on other end. Full length handle. (P. P. wt. 4 lbs.) Price \$1.50.

FULL EASY ADJUSTABLE GARDEN TOOL



Study the illustrations above carefully and you will understand the make-up of this new tool. We used them in our gardens last year and were more than pleased. For raking, cultivating, leveling and preparing the soil it has no equal. You can do more and better work with this tool than with any other that we know of. It is adjustable from 6 to 18 inches in width. It is not as heavy as it looks, and the construction of the teeth keeps it in the ground, and you can cultivate between the rows as fast as you can walk. Polished hardwood 4½ ft. handle. Try it; if not satisfied, we'll trade.

NO. 1 PULL EASY.—9 teeth (P. P. wgt. 4 lbs.), \$1.75;

Cultivator attachment for fastening No. 1 or No. 2 to Planet Junior Wheel Hoe, 50c

PLANET JR. SEEDERS AND CULTIVATORS

For 40 years Planet Jr. Garden Tools have stood the test of world-wide usage and are recognized in every known country as the highest type of garden implements.

FREE.—1921 Planet Junior 72-page Catalog, illustrated, descriptive and up-to-date, with complete price list, on request. **NOTE.**—All dealers sell Planet Jrs. at the same price, so if you happen to know the price on the implement you want, remit and we will ship from Portland stock—otherwise we'll gladly send 1921 catalog.

STANDARD MAKES OF HOES, RAKES, SPADES, SHOVELS, ETC., ON HAND AT ALL TIMES. CALL OR WRITE IF INTERESTED.

Wheel Garden Cultivator

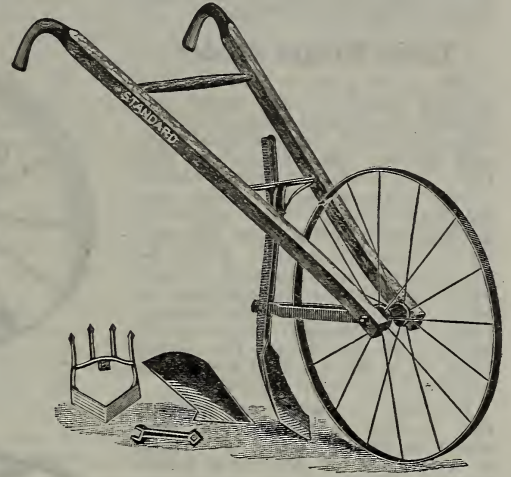
Just the right size and the right price for the average garden maker. Everyone who makes much garden should have one, as it reduces the labor one-half. Makes gardening a pleasure. Combination tools for all kinds of garden work. Does away with the tiresome hand hoeing, weeding, etc.

No. 20. Single Wheel Cultivator

This is the handiest and most efficient cultivator. By reason of the special patented shape of the shank or upright, the attachments always set at the same angle whether used for deep or shallow work. The bent oak handles may be instantly adjusted to suit the height of operator or to regulate depth for tools to run by loosening one wing nut (wrench not required). The machine runs easily, steadily and in perfect balance on the light, strong 24-inch steel bushed wheel.

Not equalled by any other cultivator, at anywhere near its price. Special care is taken with the grinding and polishing of the attachments; they are first oil tempered, then polished smooth and bright, to scour in every soil.

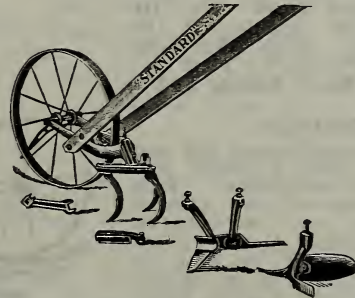
Tools Furnished.—Plow or mould board for cultivating, hilling, plowing, covering seed. Rake for cultivating, harrowing. Weeder for cutting weeds. Double Diamond Point for marking seed rows, etc. Weight 18 lbs. (not mailable). Price complete \$6.50. NOTE—the "Midget Seeder" can be attached to this cultivator.



No. 20—Single-Wheel Cultivator.

No. 22. Single Wheel Cultivator

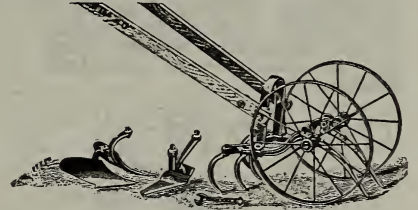
An excellent tool for close, fine work. Has new features not found in others of this class. Has a leaf guard, 3 cultivator teeth, 1 diamond plow, 1 pair hoe weeders, all of highest quality steel and guaranteed; wheel 16 inches; weight boxed, 20 lbs. Price, \$9.00.



No. 22—Single-Wheel Cultivator.

No. 13. Double Wheel Cultivator

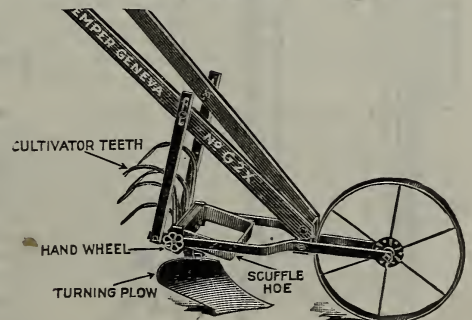
A most convenient and handy style. With the double wheels you can straddle the plants and work close, fast and accurate. An ideal garden cultivator for small or large acreage. Can be used with one wheel if desired. Equipped with 4 cultivator teeth, 2 hoes or weeders, 2 shovels or hillers, 2 leaf guards, all highest quality and polished. Weight boxed, 40 lbs. Price complete, \$13.50.



No. 13—Double-Wheel Cultivator.

True Temper Geneva, No. G2X

This cultivator with its permanent attachments is the latest design in cultivators. It combines three tools in one. There are no lost attachments or wrenches to look for, it is a time and labor saver. A complete cultivator for general work. (See cut.) Has five adjustable cultivator teeth, one three-blade scuffle hoe or weeder 9 inches wide, and one large mold board turning plow. Wheel 14 inches. Weight boxed, 22 lbs. Price, \$10.50. NOTE.—"Midget Seeder" can be attached to this tool.



No. G2X—Single-Wheel Cultivator.

True Temper "Fairy," No. 5G

Quite similar to G5X in general construction and size with 5 adjustable "invincible" cultivator teeth, made from tool-steel and properly hardened. They can be adjusted to cultivate rows from 6 to 12 inches apart as each cultivator is bolted separately to the steel center plate. With "Fairy" you can cultivate as fast as you walk and do it 10 times easier than hoeing; weight 13 lbs. Price \$5.00.

WITH A GARDEN CULTIVATOR YOU CAN CULTIVATE YOUR WHOLE GARDEN IN THE TIME IT WOULD TAKE YOU TO HOE A FEW ROWS.

Hill and Drill Seeders

We offer the following inexpensive, but satisfactory Seeders. We can also supply the Planet Jr. outfits to those who prefer them. Catalog on request.

Little Midget Seeder

The most popular little Seeder on the market. All metal extremely light and easy to operate; the shoe is adjustable for any depth, the coverer swings free, and does its work nicely.

The Midget will handle accurately almost any kind of garden seed from the smallest up to peas and beans. The hopper holds one pint, yet it will drill out clean a 5c package of seed. Not complicated, adjustments for different seeds easily made, the index on top being used as a guide. Full directions attached to every Midget.

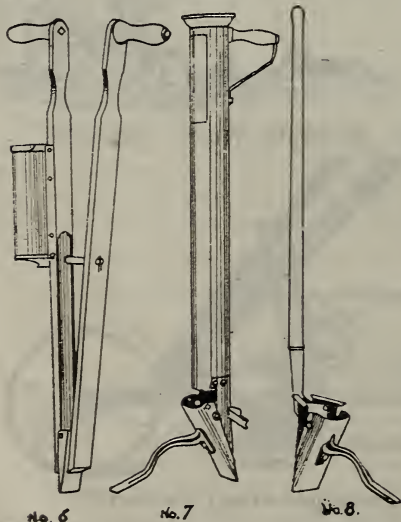
We sell it with or without the wooden handle. You can make a short handle or attach it to No. 20 or No. G2X cultivators. Prices: No. 1 Midget (without handle), (P. P. wgt. 6 lbs.), Each \$5.00. No. 1H complete with handle (P. P. wgt. 10 lbs.), Each \$6.00 add postage if wanted by mail.

Standard No. 9 Seeder and

Cultivator

This is a combination hill and drill seeder and a single and double-wheel cultivator. Fills all the needs of the planter who's work does not justify buying separate tools. Drills the seed perfectly or drop in hills 4, 6, 8, 12, or 24 inches apart, covers and rolls it down.

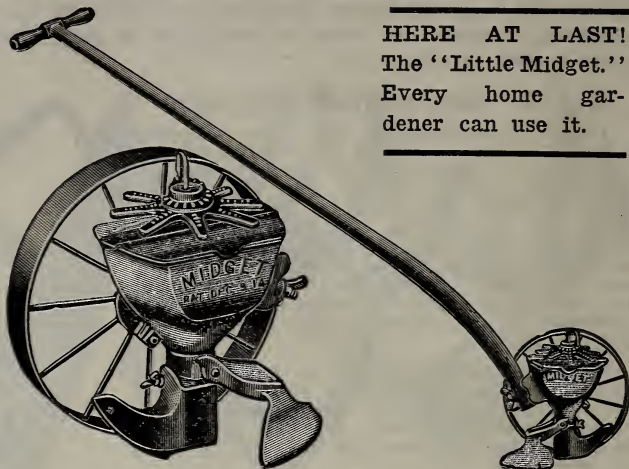
Cultivator equipment, 4 cultivator teeth, 2 hoes, 2 plows, 2 leaf guards. This outfit is highly recommended. Weight boxed, 60 lbs. Price complete, \$24.00.



No. 6

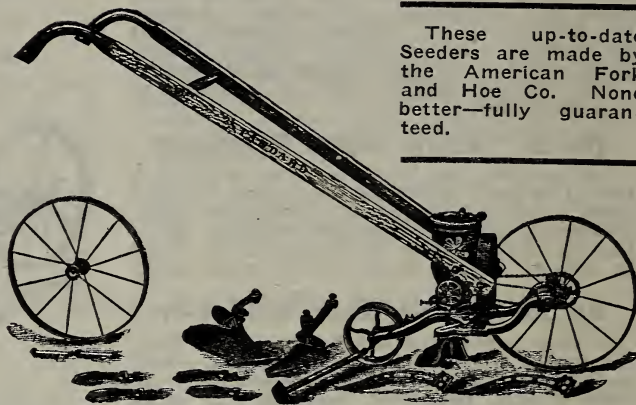
No. 7

No. 8.



Little Midget Seeder.

HERE AT LAST!
The "Little Midget."
Every home gardener can use it.



No. 9 Standard Seeder and Cultivator

These up-to-date Seeders are made by the American Fork and Hoe Co. None better—fully guaranteed.

Standard No. 12 Seeder and Cultivator

A little different style but practically same as above, except it has only 1 wheel; same equipment of tools, quickly changed from a seeder to a single-wheel cultivator. Weight boxed, 50 lbs. Price \$20.00.

Standard No. 14 Hill and Drill Seeder

This tool has no cultivator attachments. Weight boxed, 40 lbs. Price \$16.00.

Corn and Potato Planters

Save time, labor and back ache. Add postage if wanted by mail.

ACME CORN PLANTER.—(See cut No. 6.) A two-handed planter, light and durable. Adjustable from popcorn to large kidney beans. (P. P. wgt. 6 lbs.) Price \$2.00.

EUREKA TUBULAR POTATOE PLANTER.—(See cut No. 7.) Plants any size seed, and at an adjustable uniform depth. Opens automatically by forward movement; most satisfactory in every way. (P. P. wgt. 5 lbs.) Price \$2.35.

PINGREE POTATOE PLANTER.—(See cut No. 8.) Similar to the tubular, but has no tube. You lift the planter up to drop in the potatoe. (P. P. wgt. 5 lbs.) Price \$1.60.

EXTRAS.—We can supply extra Rakes, Hoes, Plows and Disc Wheel Attachment for No. 13 and No. 22 Cultivators and No. 9 and 12 Seeders. Write for prices.

SPRAYS, INSECTICIDES, ETC.

Spray material subject to market changes. Write for quantity prices. Poisons not mailable. Add postage if small pkg. of mailable sprays or powders are wanted by mail.



AT LAST!

A Real Root Maggot Remedy

It is not injurious to Plant Life in any way, but on the contrary is a valuable stimulant and Fertilizer.

IT INSURES A GOOD CROP OF

Radishes, Kale, Cabbage, Onions, Turnips, Cauliflower, etc.

You can now sow any of these crops and be certain of protection against the destructive Root Maggot, Earth Worm and other pests.

It is also invaluable for the eradication of Earth Worms from Lawns, Putting Greens and other fine turfs.

"MAG-O-TITE" ACTS as a pervertive by repelling the Fly which lays the eggs from which the Maggots are hatched and it also

destroys Maggots which are already in the soil. While intended primarily as a remedy for Root Maggots, it has proved very effective in combatting Earth Worms of all kinds, the Strawberry Crown Borer, Cabbage Worms, Asparagus Miner, Flea Beetles, Cut Worms and all kinds of Slugs.

"MAG-O-TITE" IS APPLIED by simply sprinkling it in and over the drills when seeding, and around the roots when planting. After the plants are up sprinkle around and alongside of them.

For the eradication of Earth Worms of all kinds sprinkle freely on the ground and then sprinkle lightly with water.

QUANTITY REQUIRED.—A 4-lb. package will cover about 300 feet of drill, mixed with the soil at planting time, with an occasional top dusting as a preventive during the growing period. (Dickey "Dusters" and "Acre an Hour Sifters"), see page 126, are just what you need to apply Mag-o-tite quickly and without waste.

For Field Culture the approximate quantity required is from 300 to 500 lbs. per acre.

PRICES OF MAG-O-TITE

Add postage if wanted by mail.
 2-lb. pkg. 35c; 4-lb. pkg. 60c; 8-lb. pkg. \$1.00
 25-lb. sks. \$2.50; 100-lb. sks \$8.50
 Add postage if wanted by mail.
 Descriptive folder on request.

HELLEBORE—Key-Brand—Powdered

For the destruction of slugs, currant worms, etc. Poisonous to insects but not to human beings, therefore safe to use when fruits or vegetables are nearly ripe. Use as a powder or spray, 1 oz. to 3 gal. of water. Prices: ½ lb. 40c; 1 lb. 75c.

CUT WORM KILLER—Key-Brand

A very effective poison bait against cut worms, slugs, etc. Place it around plants subject to attack. Worms prefer it to vegetation. Prices: 1 lb. 40c; 5 lbs. \$1.75.

CALCIUM ARSENATE POWDER—KEY-BRAND

For all chewing and leaf-eating insects. It may be used on apples, pears, grapes and shade trees. For most chewing insects use at the rate of 1 to 2 lbs. to each 50 gallons of water with about 2 to 3 lbs. of lime. It may also be used combined with Bordeaux Mixture and Lime and Sulphur Solutions. Prices, ½-lb. pkg. 35c; 1 lb. 65c; 5 lb. \$3.00

BUG DEATH

NON-POISONOUS.—A most effective powder for tomato, squash, cucumber and cabbage bugs, currant worm and all bugs and worms that eat the leaves of plants and vines. Bug Death is a wonderful protection against insects. Absolutely non-injurious. Contains no arsenic. Kills the bugs, prevents blight, revives and aids the healthy growth of plants and shrubs.

Prices, 1-lb. cans with perforated shaker tops, postpaid, 35c; By express, 1 lb. 30c; 5 lbs. \$1.00; 10 lbs. \$1.75; 25 lbs. and up 16c lb. Add postage if wanted by mail.

WEED KILLER—Liquid

For Lawn Tennis Courts, Paths, Roadways and any other place where you do not want grass or weeds to grow.

Guaranteed to destroy weeds, grass, poison ivy and all undesirable vegetation. Keeps roadways and paths free from weeds. Cleans tennis courts and ball diamonds. An effective combination of high grade chemicals which diluted in water at 1 to 40 destroys the roots as well as the tops of all vegetation. One gallon diluted will cover 1,000 square feet; and one or two applications are sufficient for an entire season. (Not mailable.) Most effective when ground is damp—use an ordinary sprinkling can.

Price: Qt. 75c; gal. \$2.00; 5 gals. \$9.00. Write for price per barrel.

"WOOD-LARK"

Squirrel and Gopher Poison

Guaranteed quick and sure, also very effective on wood rats, mice, etc. Use it so that the chickens or birds will not get it. Prices, by express only: 1-lb. can 60c; 10 lbs. \$4.75; 25 lbs. \$10.00.

TREE TANGLEFOOT

A sticky compound, easily applied in a band around the trunks of trees as a protection against all crawling insects. One pound makes about 10 lineal feet of bands and one application remains sticky 3 months or longer, rain or shine. Apply with a wooden paddle. Excellent to apply over fresh cuts after pruning or trimming. Keeps well. Prices: 1-lb. can 50c; 10 lbs. \$4.50; 20 lbs. \$8.75.

DON'T WAIT until the fungi, such as mildew, rust, black spot, etc., have attacked your roses and trees; the fungicide sprays are merely preventives and should be used in the fall or early in the spring. After the disease has developed, it may be too late to save the plant.

Sprays and Insecticides—Continued

The best and most economical method of spraying is with a hand or power sprayer.

ARSENATE OF LEAD

For spraying trees and shrubs or plants against the attacks of leaf-biting or leaf-eating insects of all kinds, such as green worms, slugs, etc. Especially valuable for spraying to prevent the codling moth on Apple and Pear, and should be used just before the calyx cups close, for eating insects, whenever they appear. Can be combined with other sprays.

PASTE FORM ARSENATE OF LEAD.—It comes in paste form and is diluted in water at the rate of about 1 ounce to a gallon of water, or 2 to 3 lbs. to 50 gallons of water. (Not mailable.)

Price, 1 lb. jar, 40c.

SHERWIN-WILLIAMS'

DRY POWERED ARSENATE OF LEAD.

—Has many advantages over the paste, easier to mix and requires less, is more efficient on account of its extreme fluffiness and will adhere longer. Does not deteriorate. Use 1 to 2 lbs. to 50 gallons of water. 1 to 2 tablespoonsful to a gallon. (Poison, not mailable.)

Price, 1/2-lb. can 40c; 1 lb. 60c; 5 lbs. \$2.50. Quantity price on request.

LIME AND SULPHUR SPRAYS

Particularly effective in the control of the following: San Jose Scale, Oyster Shell, Bark Louse, Scale Insects, Fungus Diseases such as Peach Leaf Curl, Apple and Pear Canker, Apple Scab, Brown Rot of Peach or Plum, Blister Mite, etc.

LIME AND SULPHUR SOLUTION.—The original and old form liquid spray for San Jose Scale. Use 1 part of this liquid to 9 parts of water for dormant spraying. We offer high grade quality. (Not mailable.)

Price, qt 30c; gal. 75c; 5 gals. \$2.50; 10 gals. \$4.50. Write for price per barrel.

DRY LIME-SULFUR.—Sherwin Williams' high grade dry powder. Overcomes disadvantages of the liquid material such as the possibility of freezing, leaky packages, hauling bulky packages, extra freight, etc. Has all the insecticidal and fungicidal qualities of the liquid material. Is absolutely safe and effective. From 10 to 12 lbs. Dry Powdered Lime-Sulfur dissolved in 50 gallons of water should be used as a dormant spray; from 2 to 3 lbs. to 50 gallons of water in combination with the usual proportion of arsenate of lead should be used for summer spray on all seed fruits such as apples, pears, etc. One-half this amount for peaches, plums, and all stone fruits. (Mailable, postage extra.)

Prices, 1 lb. 35c; 5 lbs. \$1.35; 10 lbs. \$2.25. Write for quantity price.

SCALE DESTROYER

"TARGET BRAND."—A soluble oil spray of decided merit for San Jose scale, the most effective for leaf roller, all tree infesting scale and most soft bodied sucking insects. Has many advantages over Lime and Sulphur Solution, as it spreads more readily, getting into every little crevice. Will go twice as far. Has no bad odor, does not discolor and much more agreeable to apply as it does not burn the eyes and skin; no clogging of nozzles, mixes easily. Use 1 gallon to 20 of water, after the leaves are

off and up to time buds appear. For summer spray use 1 gallon to 100 gallons of water. (Not mailable.)

Price, qt. 75c; gal. \$2.00; 5 gals. \$8.00; 10 gals. \$13.50. Write for price per barrel.

S. W. PESTROY—Powdered

This combines the insect destroying properties of Arsenate of Lead and the fungus preventative qualities of Bordeaux Mixture. It is put up in dry, powdered form for convenient use, and can be used for either dry dusting or wet spraying. It is safe and efficient. Used as a powder just as it comes from the package, in solution same strength Arsenate of Lead powder.

Price, 1/2 lb. 30c; 1 lb. 50c; 5 lbs. \$2.00.

BORDEAUX MIXTURE

For Blight, Mildew, Rust and Fungus Diseases. Also prevents and cures Black Rot and Scab, and acts as a deterrent for insects on fruits and vegetables.

BORDEAUX MIXTURE—POWDERED.—This is a perfect dry Bordeaux mixture concentrate in a dry powder. It is scientifically founded to insure perfect results, stays in suspension well and adheres to the foliage. It can be used in combination with other insecticides with an extraordinary degree of safety. For general winter use, 8 lbs. to 50 gals. of water; one-half strength for summer. (Not mailable.)

Price, 1 lb. 50c; 5 lbs. \$2.25; 10 lbs. \$4.00.

BLACK LEAF "40"

A concentrated solution of nicotine sulphate containing 40 per cent nicotine. Indorsed by the foremost experts of the U. S. for red bug, green and wooly aphid, thrip, plant lice, codling moth, pear, psylla and all sucking insects.

Also an excellent dip for animal parasites, such as scab and lice on sheep and cattle, sheep ticks, etc. (Poison, not mailable.)

Price, 1-oz. bottle 30c; makes 5 gal. spray; 1/2-lb. can \$1.00, makes 47 gals. spray; 2-lb. can, \$3.25, makes 240 gals. spray; 10-lb. can, \$13.75, makes 1,000 gals. spray. Full instructions with each can.

NOTE.—Fish oil soap (see next page), mixed in this solution makes it more effective and is necessary for perfect results. It makes it stick and last longer. Use 4 lbs. to 50 gals. solution. Full and detailed instructions with each can.

NICO-FUME

The purest and most highly refined nicotine product offered for spraying, vaporizing and fumigation in Green Houses. Our Florists like NICO-FUME better than other similar preparations such as Nicotidine, To-bak-ine, etc., because it is safe and less expensive. Read descriptive pamphlet and be convinced. Free on request.

NICO-FUME LIQUID for spraying or vaporizing; 1/4-lb. tin 75c; 1-lb. tin \$2.00; 4-lb. tin \$7.50; 8 lbs. (gal.) \$14.50. (Cannot mail.)

NICO-FUME FUMIGATING PAPER.—Quick, safe and effective for greenhouse work. Price per can of 24 sheets \$1.25 (wt. 1 lb.); 144 sheets \$5.00 (wt. 4 lbs.). Add postage. 288 sheets direct from factory prepaid for \$9.50, guaranteed fresh.

NOTE.—Prices on Sprays, etc., subject to market changes. We are not allowed to mail poisonous sprays or insecticides.

Sprays and Insecticides—Continued

SULPHO-TOBACCO SOAP

For spraying or sponging or dipping ferns, palms or potted plants, or spraying roses, shrubs or vines it is invaluable. Kills Aphis, Red Spider, Plant Lice and Sucking Insects. Acts quickly and effectively against these pests. Will not injure the tenderest plant. Two ounces of soap make a gallon of solution. Non-poisonous, perfectly safe and yet very efficient.

Prices: Postpaid, 3-oz. bar 15c; 8-oz. bar 25c.

PURITAN LIME



A highly refined lime product. Contains no adulterant and may be used with absolute freedom for the following uses: Water softener and purifier, lime water, mouth wash, disinfectant and deodorizer, whitewash, spray and soil conditioner. Descriptive pamphlet gives full information and directions. Sold in sealed packages only.

Price: 1 lb. 20c (P. P. weight 1½ lbs.); 5 lbs. 50c (P. P. weight 6 lbs.) If wanted by mail, add postage.

COMET GAS BALLS

GOPHER AND SQUIRREL EXTERMINATOR

Non-poisonous, non-explosive, inexpensive and always ready for use. They act by burning up the air in the burrow and replacing it with poisonous smoke and gases. Full directions on each package. One dozen balls in a package. Price 50c pkg., postpaid.

GRAFTING WAX

We sell Target Brand, a high-grade preparation. Easy to handle. For pruning or grafting or for covering fresh cuts.

¼ lb. 20c; ½ lb. 35c; 1 lb. 60c; postage extra.

PARIS GREEN

Poison, be careful. Usually four to six ounces to fifty gallons of water will be satisfactory. Price, ¼-lb. 25c; ½-lb. 40c; 1 lb. 75c.

FISH OIL SOAP

For aphis, plant lice, etc. Best grade, ½ lb. bar 15c; 1 lb. 25c; 10 lbs. \$2.00; 100 lbs. market price.

CARCO VEGETABLE SPRAY

A wonderfully successful spray for destroying ROOT MAGGOTS, GRUBS, ETC., that infest Turnips, Radishes, Beets, Rutabagas, Cauliflower, Cabbage, Onions, etc., and also recommended for combatting CROWN BORERS in Strawberries.

To get best results, the ground should be sprayed freely with Carco solution before planting, then again as soon as the vegetables come up. "Carco" is highly concentrated; use 1 part "Carco" to 100 to 125 parts of water. Descriptive pamphlet and testimonials on request.

Prices, qts. 75c; ½ gal. \$1.25; gal. \$2.25.

FUMOTH FUMIGATORS

For killing moths, millers, mosquitoes, mites and lice in hen house, etc. Vapor does not injure clothing, furniture, etc. Full directions on the can. Price 50c; postpaid 60c.

NIAGARA 3 IN 1—Dusting Mixture

This new preparation is meeting with great success everywhere. It is a combination of Sulphur, Arsenate of Lead and Tobacco Dust. It is specially prepared and exceedingly fine, which insures a good even distribution and splendid sticking qualities.

A combined insecticide and fungicide for mildew, green or black lice or any leaf-chewing insects. Apply with a powder gun (see page 130). No muss or slopping liquids to contend with. (Not mailable.)

Prices in bulk: 1 lb. 25c; 5-lb. sack \$1.00; 10-lb. sack \$1.50. Write for quantity prices.

RAT CURE

Never fails. It is in tablet form, ready to feed from the can; no mixing. No odor after death. A rat or mouse less for every tablet at a cost of less than one cent.

Price 30c per can; 4 for \$1.00, postpaid.

PRUNING COMPOUND OR PAINT

This paint has a heavy oil body which dries on the cut with a rubbery, elastic film that will last as long as a paint can be made to last. It will thoroughly seal up the open wound. In addition to its covering capacity it has other splendid qualities which make it more adaptable than tar or white lead. It is dark olive green in color, comes ready to use and should be applied with a stiff brush. Its low price and merit should appeal to every orchardist.

Price, qt. 65c; gal. \$2.25

Creola

An inexpensive white, disinfectant paint. Comes in dry powdered form ready to use when mixed with cold water. Excellent for use in chicken houses, stables, dog kennels, dairies, out houses, etc. Creola can be applied to any solid surface, such as wood, cement, brick, stone, iron, etc. And when dry will be snow white. When properly mixed and applied does not flake or peel off like ordinary whitewashes. Keep the cellar, animals quarters, etc., white and sanitary with Creola. Full directions on each package.

Price: ½-lb. pkg. 30c; 5 lbs. 85c; 10 lbs. \$1.50; 25-lb. box \$3.50; 50-lb. box \$6.50 100-lb. box \$12.50. Descriptive leaflet on request.

UNSLACKED LIME.—For making whitewash, etc.

Price, 5 lbs. 25c; 10 lbs. 40c. Add postage. Barrel price on request.

SULPHUR POWDER.

Lb. 10c; 100 lbs. market price

SULPHUR CANDLES.

Each 10c; postpaid 15c; 3 for 35c

TOBACCO DUST.—Valuable as an insecticide. Lb. 15c; 10 lbs. \$1.25

BLUE STONE-VITROL.

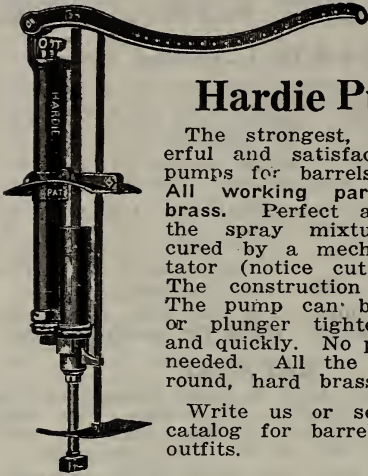
1 lb. 25c; 10 lbs. market price



FREE ADVICE.—If you will write and tell us what insects or plant disease you want to combat, we will advise you to the best of our ability.

SPRAY PUMPS AND SPRAYERS

Our experience shows us that if you get a good outfit, one large enough to do your work, you will spray well and as often as necessary; but if you get a cheap outfit or one that is too small, you will become disgusted, throw it aside and let this most important work go undone. **HARDIE MFG. CO.'S HANDSOMELY ILLUSTRATED SPRAY PUMP CATALOG ON REQUEST.**



Hardie Pumps

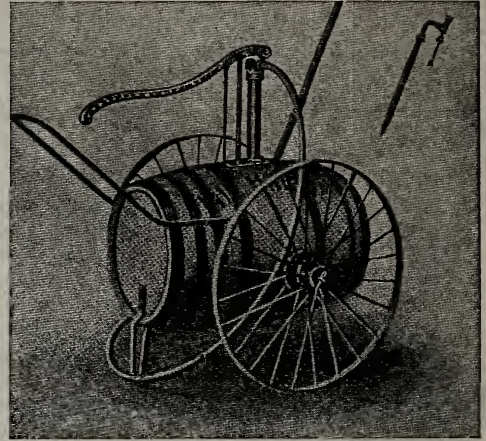
The strongest, most powerful and satisfactory spray pumps for barrels or tanks. All working parts are of brass. Perfect agitation of the spray mixture is secured by a mechanical agitator (notice cut carefully). The construction is simple. The pump can be repacked or plunger tightened easily and quickly. No pipe wrench needed. All the valves are round, hard brass balls.

Write us or see Hardie's catalog for barrel or power outfits.

No. 6 Hardie

Catalog No.	Capacity per Hour	Prices	
		A. B.	W. I. C.
NO. 5	50 gal.	\$21.50	\$19.50
NO. 6	75 gal.	25.00	22.75
NO. 7	120 gal.	31.00	28.00

NOTE.—A. B., all brass—W. I. C., with iron air chamber.



Hardie Wheel Outfit No. 21

WHEEL OUTFIT NO. 21

A most satisfactory outfit and one of our best sellers. Especially designed to meet the needs of the small fruitgrower, gardeners and florists, for all-round spraying. It has the capacity and power to do good work rapidly. Dairymen, poultry keepers and farmers will find this outfit most useful for whitewashing, disinfecting and general spraying. The 30-gallon barrel is mounted on strong wrought-iron wheels, 26 inches in diameter, with 1½-inch tires. No. 5 pump, 5 feet best hose and couplings, 8-foot bamboo rod and leakless stopcock. 1 Vermorel nozzle. Price \$40.00



No. 40 Utility

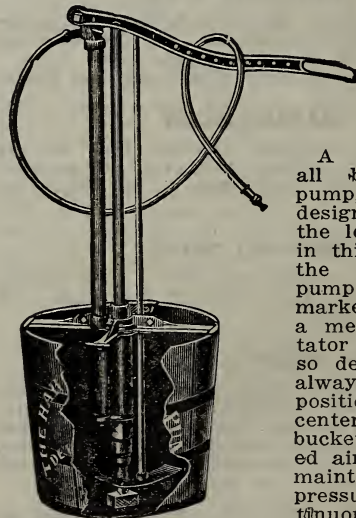
UTILITY NO. 40 SPRAY OUTFIT

A very useful and convenient portable outfit for all-round spraying, whitewashing or disinfecting. Outfit only 18 inches wide, permitting its use in narrow passageways.

Tank, 18-gal. capacity, made of heavy galvanized iron, reinforced at top and bottom. Frame made of steel tubing, well braced, to insure strength and rigidity. Tank when filled hangs in a vertical position and is easily removed. Wheels, 18-inch diameter by 2½-inch face.

The air pressure tank is so constructed that a sufficient pressure may be attained and considerable spraying done with one pumping. Tank is supplied with pressure gauge and drain plug.

Equipment, 10 feet of ½-inch, 5-ply hose, 4 feet spray rod, and No. 65 shut-off, self-cleaning, adjustable nozzle. Weight crated, 100 lbs. Price \$52.50.



HARDIE BUCKET PUMP NO. 10

A high-grade, all brass bucket pump, especially designed to meet the long-felt want in this line. It is the only bucket pump on the market that has a mechanical agitator and that is so designed as to always stand in position in the center of the bucket. Good-sized air chamber to maintain high pressure and continuous spray.

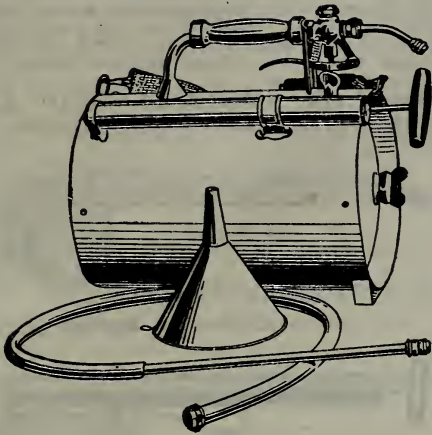
Price, including No. 4 Pump, one 5-gallon heavy wooden bucket, three feet best ½-inch hose, one spraying lance 18 inches long, one Vermorel nozzle, price \$15.00.

To reach the tops of tall trees, you should order, extra, an extension rod. For price of extension rods, see page 127.

LARGER PUMPS.—For larger pumps and power outfits ask for Special Spray Pump Catalog—Free on request.

LOWELL FOUNTAIN SPRAYER

Every city gardener, florist and poultry keeper needs a Lowell Fountain Sprayer; clean and easy to operate; no need to get any spray on your hands or clothes; will last for years with reasonable care.



Lowell Fountain Compressed Air Sprayer

Special Features: Capacity 3 gallons; can be carried by the handle (see cut) or a shoulder strap. The automatic controlling valve under the handle, gives instant and perfect control of the spray and don't waste any. The air pressure pump is outside where you can get at it, the filler plug is well made and fits tight. The tank after being seamed and riveted is dipped into molten solder, making it absolutely air tight and the strongest Air Pressure Sprayer made, standing five times the air pressure necessary to operate.

Hose with a 4-inch rod 2 nozzles and filler funnel, with each outfit. For reaching the under side of leaves of low bushes, use the vine attachment extension rod. For high spraying use as many two-foot extensions as needed. Descriptive booklet on request.

Prices: No. 111 brass tank \$13.50; No. 110 galvanized tank \$9.50. (Wgt. boxed 14 lbs.)

Extras—2-foot brass extension rods, each 75c; vine attachment, 2-foot extension with bent neck, each \$1.00. (P. P. 1 lb.)



Lee's Utility

UTILITY COMPRESSED AIR SPRAYER

This type of sprayer is the most popular for all general work requiring a sprayer. It is adapted for spraying, whitewashing, disinfecting, for the application of glue sizing, etc. Size, 7 1/4 by 20 inches; capacity, 3 1/2 gallons. Side seam closely riveted and all joints well soldered and tested. Pump cylinder made of brass with bronze ball check valve, which will not deteriorate like rubber; hose, 1/2-inch, 5 ply, attached to tank by means of a standard hose connection of brass. Filling cap of ample size, easily removed without use of a wrench. Angle automatic shut-off nozzle, made of brass, new design with extension feature, equipped with strainer, and fine, medium and coarse spray nozzle caps.

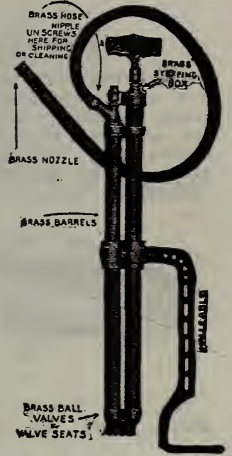
Weight boxed, 12 lbs.
Prices: GALVANIZED TANK \$8.50;
BRASS TANK \$12.50. (Add postage if wanted by mail.)

NO. 26 O. K.

BUCKET PUMP

(See cut.) — Constructed entirely of brass. It is furnished with three feet of best quality rubber hose, detachable; malleable iron stirrup, three interchangeable brass nozzles which throw a fine mist, coarse spray or a solid stream. Pump is provided with large air chamber, with brass ball valves and valve seats. Throws a continuous spray; neat in appearance as well as durable in construction. Much superior to most pumps of this class. (Wgt. 8 lbs.)

Price \$6.25



O. K. Bucket Pump

NO. 29, BRASS BUCKET PUMP

The best low-priced spray pump on the market. Double air chamber enables the operator to keep constant pressure with little effort. One fine, one coarse nozzle, 3-foot hose. (Wgt. 7 lbs.)

Price \$5.25

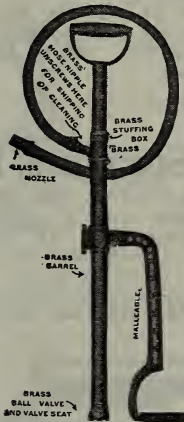
NO. 32, BRASS BUCKET PUMP

Well made; all working parts brass; larger capacity; bulb air chamber produces continuous spray; works easily; two nozzles. (Wgt. 12 lbs.)

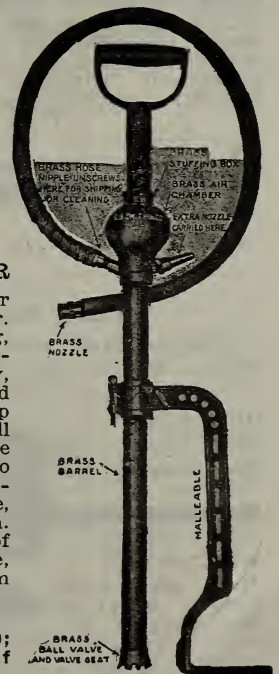
Price \$8.25

NO. 28, WHIRLWIND WHITEWASHER

Made especially for whitewashing. Galvanized tin, brass plates, steel footrest, 3 ft. hose, double nozzle. (Wgt. 5 lbs.) See illustration, page 138. Price \$3.50



No. 29

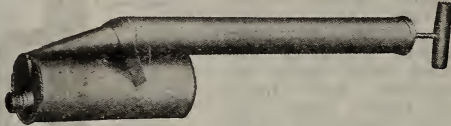


No. 32

SPRAY PUMPS—Continued

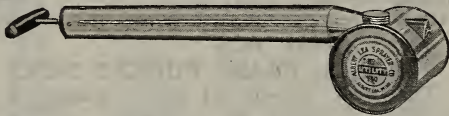
PERFECT SPRAYERS

The "Perfect" Sprayers offered below are well and properly constructed of heavy, high-grade material. We offer "Highest Quality," far superior to most makes. Full size, 20 inches long, capacity 1 quart. Adapted for all kinds of general spraying. Your choice of styles.



No. 7 Perfect

No. 6 or No. 7 (P. P. weight 2 lbs.) your choice, each 75c. Boxed and postpaid \$1.00



No. 6 Perfect

MIDGET SPRAYER.—Same style as No. 7. Perfect, but smaller; capacity, pint.
Each 50c; postpaid 70c

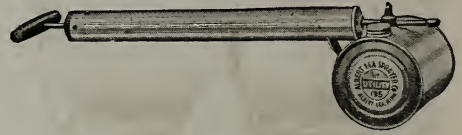
RAISE MUCH FRUIT?

If you have any amount of fruit to pick you need one of our new Fruit Picking Bags and a good, safe, handy ladder. Write for descriptive leaflet and prices.

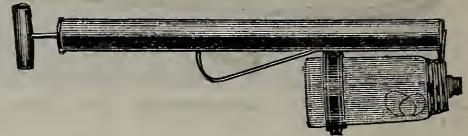
NO. 5 CONTINUOUS SPRAYER

Has 2 spray caps for spraying up, down, straight ahead or at any angle and is so constructed that it not only sprays on the downward stroke of plunger, but also when it is drawn back, thus causing a continuous mist-like spray, enabling one to spray three times as fast and with one-third the labor. Length 20 inches. Capacity, one quart. (P. P. weight, 2 lbs.)

Each, TIN, \$1.25; GALVANIZED, \$1.50; BRASS, \$1.75. Boxed and postpaid, 25c extra.



No. 5 Continuous Sprayer



NO. 3 GLASS TANK

Well constructed, the glass reservoir which is a quart Mason jar, is not affected by any kind of spray. You can have several jars of different sprays (already prepared) and when you wish to change, take out one and put in another. No delay. Extra long air chamber, special plunger and throws a strong, fine spray in any direction. (P. P. weight, packed, 5 lbs.)

Each, \$1.25; Boxed and prepaid, \$1.50

Powder Sprayers, Blowers and Dusters

These are used for applying Sulphur, Bug Death, Dry Bordeaux or insect powder of any kind.

LOWELL POWDER GUN (See cut).—Heavy tin. Finished in aluminum. If the powder is sifted and dry it will not clog; guaranteed. Throws a fine cloud of powder. Capacity 1 quart. (P. P. 2½ lbs.)

Price \$1.15; postpaid \$1.40

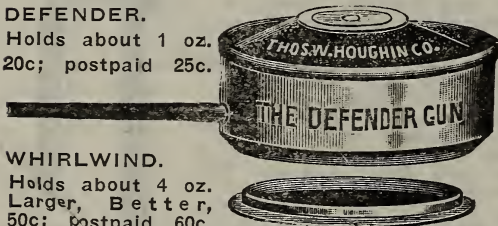


Lowell Powder Gun

CORONA DUST GUN.—A new style, light weight, durable and powerful dust gun.
Price \$3.00; prepaid \$3.50

DEFENDER.

Holds about 1 oz.
20c; postpaid 25c.



WHIRLWIND.

Holds about 4 oz.
Larger, Better,
50c; postpaid 60c.

UTILITY POWDER DUSTER NO. 170 —
Descriptive booklet on request. Price \$12.50.

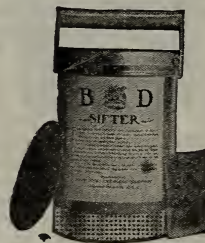


DICKEY BUG DEATH DUSTER.—For using when applying lime, dust or powder of any kind. For use on small gardens this is very handy. Saves powder, puts it on evenly and just where you want it.
(P. P. ¼ lb.) Each 50c; postpaid 60c

ACRE AN HOUR DUSTER OR SIFTER.

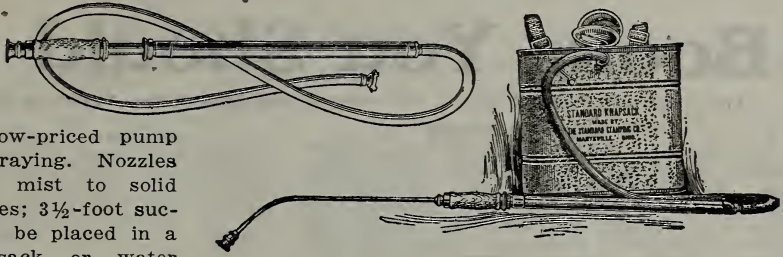
— Bucket shaped straight sides, made of heavy tin, good handle, holds 5 lbs. powder. A simple twist of the wrist does the work. As its name implies, you can cover an acre of plants an hour.
(P. P. 2 lbs.)

Each 75c
Postpaid \$1.00



Dry powder insecticides are becoming more popular each year as very effective results can be obtained.

STANDARD BRASS SPRAY PUMPS



A simple, strong, low-priced pump for every kind of spraying. Nozzles adjustable from fine mist to solid stream; brass ball valves; 3½-foot suction hose, which is to be placed in a bucket, barrel, knapsack or water trough; a longer hose can often be used to advantage. As a handy all-around fruit or garden sprayer, and for washing windows, buggies, autos or as a fire extinguisher, it has no equal.

Prices: Pump Only (wgt. 6 lbs.), \$5.00. With Knapsack Reservoir, \$9.00. Extension Rod, \$1.00; Extra Hose, per foot, 20c.

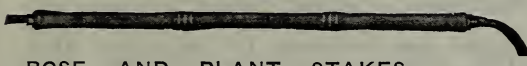
Standard, With Knapsack Reservoir

BAMBOO EXTENSION RODS AND EXTRAS

These are necessary for spraying trees. Our stock is made up in the best possible manner. No. 1 bamboo poles lined with either aluminum or steel tubing, screw threaded into brass connections at either end. Stopcock or cutoff necessary to make connections complete.

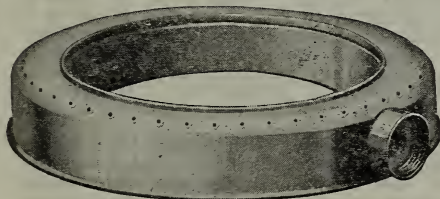
	6 ft.	8 ft.	10 ft.	12 ft.
ALUMINUM LINED	\$4.00	\$4.50	\$5.00	\$5.50
STEEL LINED		2.60	2.90	3.20

EXTRAS FOR EXTENSIONS.—Stopcock, each \$1.40; Angle Cutoff \$2.00; Dip Guard 40c.



BAMBOO EXTENSION ROD

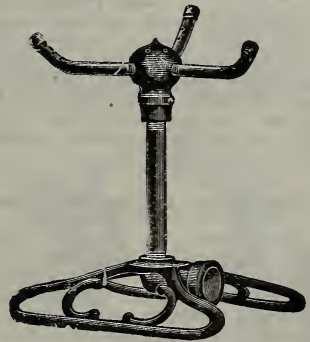
ROSE AND PLANT STAKES, WEED KILLERS, ETC., see pages 116 to 123.



Fountain Sprinkler



Busy Sprinkler



Pluvius Sprinkler

NOZZLES, SPRINKLERS, HOSE MENDERS, EXTRAS, ETC.

LAWN SPRINKLER

Don't waste time holding the hose nozzle—use lawn sprinklers, and change positions as often as necessary.

Pluvius Lawn Sprinkler.—11 inch, upright standard, 3 brass arms. (P. P. 4 lbs.) Each \$2.25

Monarch or Midget.—Same style as above, 5½ inch. (P. P. 2½ lbs.) Each \$1.75

Busy Lawn Sprinkler.—Covers 25-foot circle. Very desirable for medium sized yards. (P. P. 3 lbs.) Each \$1.75

Fountain Sprinkler.—Circular brass tube. Large \$1.50; Small, sprays square, 85c; Half Circle 75c (postage 10c; any style).

Little Wonder.—Cheap, but good. Excellent in small yards. Covers 20 feet. (P. P. 1 lb.) Each 75c

No. 31—Diamond Hose Nozzle.—Best for sprinkling; adjustable from solid stream to a fine spray. (P. P. ½ lb.) Each 75c

Fountain Shower Hose Nozzle.—Makes a very fine mist-like spray. 35c; 50c postpaid

No. 41—Dandy Hose Clinchers.—Best mender made, simple and quick; nothing to catch; sure to hold.

Postpaid, ½ in., 15c; ¾ in., 20c

No. 40—Garden Hose Connections.—Both male and female couplings.

½ in. or ¾ in., pair 50c (6 oz.)

Hose Washers. Doz. 10c, postpaid

No. 45—Metal Mender Tubes. ½ in. or ¾ in., each 10c, postpaid

No. 42—Hose Clamps, single band. ½ in. or ¾ in., each 10c, postpaid

No. 44—Hose Clamps, double band. ½ in. or ¾ in., each 15c, postpaid

SPRAY PUMP NOZZLES

Single Bordeaux (Best for Whitewash)...\$1.50
Single Vermorel (Very Fine Spray)... 1.20

SPRAY AND GARDEN HOSE

See page 40

PLANT SMALL FRUITS around your garden. What's nicer than delicious fresh fruit, fresh from your own garden? See Fruit Department, pages 106 to 115.

Books You Should Read

The following list comprises the newest and best books covering the different subjects.

NEW GARDEN GUIDE

The amateur gardener's Handbook. Thoroughly covering Vegetable and Fruit Raising. How to Plan, Plant and Maintain the Home Grounds, the Suburban Garden, the City Plot. How to Care for Roses and Other Favorite Flowers, Hardy Plants, Trees, Shrubs, Lawns, Porch Plants and Window Boxes. With Chapters on Pruning, Propagation, Fertilizers, Insect Pests, Tools. Winter Storage, Canning, Birds, Garden Furniture and 1,001 Practical Pointers. Heavily illustrated with over 275 teaching plans and diagrams and reproduced photographs, all made expressly for this Standard Text Book.

Prices: Paper covered \$1.10; cloth cover \$1.65.

HOME FRUIT GROWER

By M. G. Kains. A simple and practical volume for the amateur, who seeks to grow high quality fruits for home needs. Nicely illustrated. 213 pages. Prices: Paper covered, \$1.10; cloth, \$1.65.

New and Practical Books for Poultry Keepers

Use of Artificial Light to Increase Winter Egg Production

The best book on the subject to date—in fact, THE ONLY COMPLETE ONE. Just off the press. Gives complete information on every important detail of the practical use of lights. Special attention to methods in use in the Northwest. Grant M. Curtis. 120 pages, 9x12 inches, profusely illustrated \$1.50

Profitable Culling and Selective Flock Breeding

By Homer W. Jackson. Nothing equal to this money-making book has been published in years. Only complete work published on culling. Fully describes all approved methods of selecting layers. 120 pages, 9x12 inches, illustrated with 18 color plates and many half-tone engravings. \$1.50

How to Feed Poultry for Any Purpose With Profit

By John H. Robinson. Complete, authoritative book on feeding all kinds of poultry—just off the press and down to date in every respect. Tells what to feed and how to feed. Complete table showing nutritive values of all poultry feeds. 112 pages, 9x12 inches, beautifully illustrated....\$1.25

Successful Backyard Poultry Keeping

New 1921 book, and a most practical guide for those who are keeping fowls in limited space, whether to supply eggs and poultry for the family table or as a source of income. Every beginner and city poultryman should have one of these valuable books; over 100 illustrations. 103 pages, 9x12 inches. Price, \$1.00 postpaid.

A Living from Eggs and Poultry. 188 pages, 5x7 inches\$1.90
 Back Yard Poultry Feeding. 72 pgs., 5x7 .50
 Eggs and Egg Farms. 96 pages, 9x12 .60
 Egg Record and Account Book..... .30
 Poultry Architecture. Fiske. 125 pages 5x775
 Successful Poultry Keeping. 176 pages, 9x12 1.00
 The Call of the Hen. Walter Hogan.. 2.00

MILADY'S HOUSE PLANTS

This new book, written by an expert on house plants, is fully illustrated and gives the information every lover of plants needs to be successful. Don't let your beautiful palms, ferns and plants die. 180 pages. Cloth bound. Price \$1.10 postpaid.

COMMERCIAL PLANT PROPAGATION

A new and up-to-date book so fully illustrated and plainly written that the professional as well as the amateur will find it of great value. Cloth. 180 pages, \$1.90 postpaid.

PRACTICAL LANDSCAPE GARDENING

This new book, written by Robt. B. Gridland, is without a shadow of a doubt the best book we have read. Contains 91 illustrations, 67 sketches and 33 plans. Enamel paper, well bound, 266 pgs. Price, \$2.65 postpaid.

Poultry Houses and Fixtures

Shows plans of low-cost, practical, and labor-saving houses, designs for inside fixtures, roosting coops, and coops for young chicks, and appliances for the poultry yard. 1920 edition; completely rewritten from cover to cover 112 pgs. 9x12 inches \$1.00

Poultry Breeding and Management

By James Dryden. This book is written for the man or woman on the farm who is interested primarily in making poultry pay. It gives in detail the latest and best systems of poultry farming, breeding, housing, feeding and incubation. Illustrated. 5½x7½ inches. 416 pages. Cloth.....\$2.70

Success With Hens

By Robert Joos. This book contains nothing but the best methods and only those which have been proven by the experience of successful poultry keepers. On everything pertaining to the care of hens. 234 pages. Cloth. \$1.35 postpaid.

Artificial Incubating and Brooding

Tells how to obtain strong-germed, fertile eggs; how to operate incubators and brooders. If you want to get good hatches and raise the largest possible percentage of chicks hatched, you need this down-to-date book. 112 pages, 9x12 inches\$1.00

High Egg Production, by Individuals, Pens and Flocks

By Homer W. Jackson and Grant M. Curtis. Generally speaking, the foundation on which the commercial poultry industry rests is egg production. Every up-to-date poultry keeper needs to have truly well-rounded knowledge of how to go about getting high egg yields. The man who depends upon improved conditions without breeding up his flock, and the one who depends upon breeding and ignores other essentials, will each fall behind in the race.

The authors had the hearty cooperation of the most expert and practical breeders in the United States. There has never been a book published on this subject that can approach its completeness and authoritativeness.

Size 8½x12 inches, 123 pages, profusely illustrated, including two three-color charts. Art cover by Price, \$1.50, postpaid.

BOOKS—Continued

MAKING THE FARM PAY

By C. W. Bowsfield. The world's greatest farm book. It now appears in a thoroughly revised edition, adapting it to the agricultural conditions created since the war. Every phase of agriculture is considered. It tells how to get the best results with the least labor and least waste. 311 pages; cloth. \$1.50, postpaid.

EVERY STEP IN CANNING

By Grace Viall Gray. This is the first book to fully explain the canning of fruits and vegetables by the cold pack method. In this volume the leading expert in cold pack canning clearly gives full directions for properly preserving, in any form, every kind of food product. A book that thousands of women have wanted. 253 pages; cloth. \$1.50, postpaid.

SUCCESS WITH HOGS

By Chas. Dawson. A practical book, which tells in a clear reliable way everything about hogs. It gives the latest and best methods for feeding, breeding and care of swine. This is the most useful book on swine ever published, and no hog raiser can afford to be without it. Illustrated. 268 pages. \$1.50, postpaid.

THE "BREED" BOOKS, ALL LATE AND "UP-TO-DATE"

	Price Postpaid
Aslaties. 100 pgs., 9x12.....	\$.75
Campnes. 88 pgs., 9x12.....	.75
Ducks and Geese. 104 pgs., 9x12.....	.75
Leghorns. 144 pgs., 9x12.....	1.00
Orpingtons. 80 pgs., 9x12.....	.75
Plymouth Rocks. 144 pgs., 9x12.....	1.00
Rhode Island Reds. 88 pgs., 9x12.....	.75
Turkeys. 96 pgs., 9x12.....	.75
Wyandottes. 160 pgs., 9x12.....	1.00

Other Valuable and Worth While Books

Asparagus. Hexamer	\$1.25
Barn Plans and Out Buildings. Powell.....	2.70
Beginners' Guide to Fruit Growing....	1.40
Butter Making. C. A. Publow.....	.85
Federal Farm Loan System. Myrick....	1.80
First Lessons in Dairying. Van Norman.....	1.25
New Onion Culture. Greiner.....	1.25
Practical Fruit Grower. Maynard.....	1.25
Profitable Dairying. C. L. Peck.....	1.65
Rhubarb Culture. New. Morse & Fiske.....	1.25
Silos, Ensilage and Silage. Miles.....	1.25
Soiling Crops and the Silo. Shaw.....	2.70
Strawberry Cultivist. Fuller.....	.55
Tomato Culture. Tracy	1.25
The Potato. Frazer.....	1.35
The Right Use of Lime for Soil Improvement. Agee.....	1.70
Window Flower Gardening. Heinrich..	1.25

SAFETY FIRST
CHEAPER THAN OIL

DAD'S ELECTRIC LANTERN

THE LIGHT OF
ALL LIGHTS

These are a little out of our line, but of great merit and of such value to the majority of our customers that we offer them for sale.

Dad's Electric Lantern is a full-sized searchlight lantern. It stands 7½ inches tall, 5¼ inches wide, 2¾ inches thick, excluding the projecting bail, headlight and handle. It's the most wonderful light ever invented for all general purposes. It's in a class entirely by itself and should not be confused with flashlights or so-called electric lanterns using one cell.

Dad's Electric Lantern uses two ordinary standard 6-inch dry cells (or batteries), obtainable from us by parcel post or in any town or village.

DAD'S NO. 1 ELECTRIC LANTERN (See cut).—A wide-angle, real light, that you can work or read by. Light is turned on or off in a second—no matches to scratch or danger from fire.

Throws a powerful, illuminating, brilliant light 200 feet or more. Sure, safe and always ready for use.

Can be set down or carried by the bail or handle on the back. Ideal for Dairymen, Poultry Keepers, Campers, Travelers or Autoists. We use these around the store and on all our outing trips. We couldn't do without our "Dad."

A Safe, Bright Light

Every farmer has use for DAD'S ELECTRIC LANTERN. It's always ready, wind and storm proof, and gives a REAL LIGHT.

Petrolia, Calif., June 20, 1920.

Routledge Seed & Floral Co.

Gentlemen: It is the best lantern we have on the ranch and will be glad to get new bulbs at an early date.

Yours truly,

THOMAS A. JOHNSTON.



Dad's No. 1 Electric

PRICES—Dad's No. 1 General Purpose Lantern, without dry cells, \$3.00 (mailing weight 2½ lbs.); complete with two dry cells, \$4.00 (mailing weight 7 lbs.). Add postage if wanted by parcel post. (Get dry cells at your store and save postage.)

EXTRA PARTS—Reflectors, 75c; Lens, white or red, 35c; Tungsten Bulbs, 40c, postpaid; Dry Cells (wgt. 2½ lbs.), 60c each.

DAD'S ADJUSTABLE HOLDER BRACKET.—This is a strong, well-made holder to set the lantern in if you want to use it as a head light or tail light on a vehicle, auto or boat. The holder fastens on securely and the lantern is quickly fastened in place or removed when you need it for other purposes. No. 1, Price \$1.00 (weight 2¾ lbs.)—add postage if wanted by parcel post.

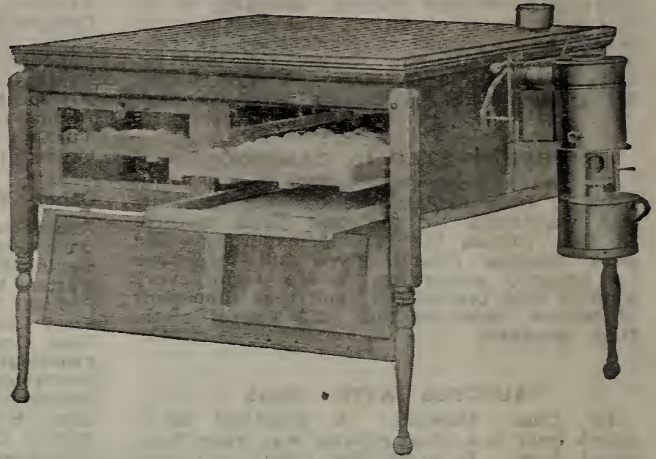
PAMPHLET GIVING FULL INFORMATION AND ILLUSTRATIONS ON REQUEST

QUEEN INCUBATORS

Recognized today as the World's Standard Hatching Machine

EVERY MANUFACTURER CLAIMS HIS MACHINE IS THE BEST. The most extravagant claims are generally made for the cheapest and most flimsy machines. Unfortunately, there is at present no law to protect the public against irresponsible exaggeration, and it is wise for you to make thorough investigation.

WE WELCOME ANY SUCH INVESTIGATION and comparison, for you will find MORE GENUINE VALUE IN THE QUEEN, for the amount of money you pay, than in any other incubator on the market. Our 20 years' experience proves it.



No. 4 Queen, 275 Egg

"Best by Test"

OVER 200 CARLOADS OF QUEEN INCUBATORS SOLD LAST YEAR. THOUSANDS OF POULTRY RAISERS EAST AND WEST CLAIM THE "QUEEN" IS "BEST BY TEST."

Wonderful Hatchers

Queen Incubators are famous for big hatches of strong, healthy chicks that live and grow. The QUEEN is accurately regulated—taking care of a temperature variation of 70 degrees without danger. It is built of genuine California Redwood—very scarce in these days of imitation and cheap substitution. Redwood does not absorb the odor from the hatching eggs. Cheaper woods, and pasteboard lining in most other makes, retain the odors which certainly weaken and kill the hatching chicks.

REMEMBER, it is not how many you hatch that counts, but how many you raise. Chicks that hatch out WEAK AND WOBBLY, live but a few days and mean nothing to you except trouble and loss. They make one sick of the poultry business. Most of the chicks you lose in the first two weeks die because they did not hatch out with enough vitality or strength for a good start.

Insulation

Many incubators, nowadays, are not well insulated. Proper insulation adds considerable expense to the manufacturing cost, and the manufacturers of cheap, low priced machines dispense with it, or use an inferior substitute. Investigate this most important feature very carefully.

Good insulation means a proper maintenance of uniform heat throughout the hatching period, less fuel and stronger chicks.

The QUEEN is doubly insulated. First, we use double walls of California Redwood, forming a dead air space. Second, we use corrugated strawboard between the wooden walls.

QUEEN CATALOG

We will gladly mail to you a copy of the Queen Incubator Co.'s illustrated and descriptive catalog. It goes into detail and plainly shows you just how they are constructed and why they are so successful. Write us today; a postal will do.

Hot Water Heating System

The Queen Heater, tank and water pipes are made of genuine copper, the best material for this purpose. Every outfit tested under heavy pressure and guaranteed perfect.

The QUEEN Hot Water system eliminates the injurious drying out tendency found in all hot air incubators and provides a soft, uniform heat over every part of the egg chamber that is most natural for the hatching eggs. This form of heat under ordinary conditions makes unnecessary the application of moisture.

The QUEEN is not a cheap incubator, compared with many of the cheaply constructed machines on the market, but it is the "Best Bargain," as it will be turning out high percentage hatches years after the cheap machines have been junked.

Portland Prices

We order in carload lots and can make prompt shipments. All machines fully guaranteed.

No. 1	Queen—	85 egg capacity	.....	\$32.50
No. 2	Queen—	135 " "	.....	46.00
No. 3	Queen—	180 " "	.....	54.50
No. 4	Queen—	275 " "	.....	68.50
No. 5	Queen—	400 " "	.....	82.00
No. 25	Queen—	600 " "	.....	120.50
No. 35	Queen—	800 " "	.....	153.00
No. 45	Queen—	1000 " "	.....	190.00

Style K Queen Incubators

These are built to sell at a lower price and are, we believe, the equal of any other incubators sold with the exception of our Standard Queen line. They have double walls, copper pipes and heater, same style regulator, but of lighter construction, double doors, etc. Queen catalog tells all. Made in three sizes only, priced as follows:

No. 20	Style K—	70 eggs	.....	\$22.75
No. 21	Style K—	130 eggs	.....	36.00
No. 22	Style K—	220 eggs	.....	47.50

1921 QUEEN BROODER STOVE

The only Coal Burning Brooder Stove with Automatic Control of Both Check and Draft

Don't Hatch Chicks and Lose Them—Use a "Queen"

The Queen burns any kind of fuel with equally satisfactory results. We recommend chestnut sizes in all kinds of fuel, hard or soft coal, coke, charcoal, or briquettes burn equally well. Of course, hard coal will not cause the pipe to become sooty as quickly as others.

Without a question the "Best" coal burning brooder stove on the market today. Note the improvements—the self-feeding, straight, flaring fire bowl, no clogging like in the old barrel-shaped bowls. A full-size rocker grate, a real automatic wafer regulator that really works in connection with a right-principle damper or check valve. A fire-proof, ventilated stove base and a collapsible, four-piece hover (to save freight charges and to save room when not in use.)

The QUEEN Colony Brooder is a new and improved design of brooder stove. It is made of highest quality iron castings that will wear and last indefinitely.

There are no drafts on the smoke pipe of the QUEEN. The check rests on top of the stove and opens outward when fire is too warm, thus giving a gentle inflow of air to retard the heat. While the opening of the draft to increase the fire is located on the top of the stove, it opens into the fire at the base through an opening extending down the side to the bottom. This feeds the draft into the fire from underneath with no opening below the hover. As will be seen from the illustration, the check and the draft lids are cast together and operated together. Thus when the fire is too hot, the wafer automatic regulator expands and closes the draft and opens the check, but if at any

time it gets too cool, the wafer contracts and closes the check and opens the draft. This keeps an even heat all the time, both night and day, in cold weather or warm, and does it automatically. You don't have to pay any attention to it whatsoever. Just set the regulator for the proper temperature at the start of the season—it will do the rest.

Next to a good draft through the chimney, the principal secret of a good fire in any stove is a good grate that will free the fire from ashes properly and prevent clinkers. The grate in the Queen stove is the rocker type and strikes the fire at four points. This is far superior to any drawer-center or shaker grate, because it cleans the fire thoroughly and by striking at four points will break up and remove all clinkers.

The hover used on Queen stoves is collapsible and made of four pieces of galvanized iron. This hover comes knocked down, with holes punched and stove bolts attached, ready for putting together. By being collapsible, it enables you to save room when storing and lessens the danger of damage when not in use. Hover has a cast-iron ring on top which sets firmly around the top of the stove. It is furnished with a wire hook to which rope and pulleys may be attached, but it is not necessary to raise the hover to put in coal.

The Queen stove provides a constant, correct heat, and a constant distribution that makes the chicks develop into STRONG, HEALTHY CHICKS. By brooding with a "Queen," the chicks get plenty of pure, fresh air, plenty of exercise, and there is no POSSIBLE CHANCE OF THEM CROWDING OR SUFFOCATING.

Queen No. 2 Brooder Stove

This is the most popular size and will brood any number of chicks up to 1200. Diameter of grate, 10 $\frac{1}{4}$ inches; diameter of hover, 52 inches. Price, \$33.50.

Queen No. 1 Brooder Stove

This size is made for those who have limited room and do not need so great a capacity. No. 1 will brood any number of chicks up to 600. Diameter of grate, 9 inches; diameter of hover, 42 inches. Price, \$27.50.

Perfect Satisfaction

Last season we handled a full carload of Queen Stoves and did not get a single complaint. Queen Service is O. K.

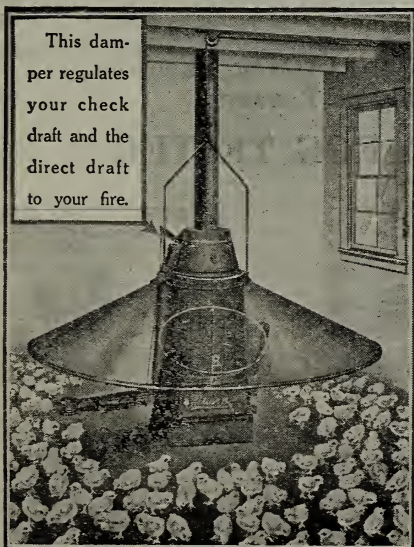
Queen Blue Flame Oil Burner

A Valuable Attachment—Just Perfected

Just as this catalog is going to press we are informed by the Queen Incubator Company that they have perfected an oil burner that is a great success. This can be attached to any coal-burning Queen stove. Supplies ample heat, safe and sure. The price will probably be \$7.50. We expect advertising matter soon. Write if interested.

SEE BABY CHICKS, PAGE 19

NOTE.—Order What 3-inch stovepipe you need @ 30c; 2-foot lengths; elbows, 40c. We can supply GAS CO.'S BRIQUETTS. Write for prices.



Every chick hatched represents possible profit. The work laid out before you is to get this chick into a vigorous laying hen, or fit for market in the SHORTEST TIME possible. Start and finish them with "Queens."

success.

CHARTERS INCUBATOR REGULATOR

THIS NEW INVENTION IS A WONDER

No other regulating device made like it. Just think of the time and trouble it saves! FILL AND TRIM THE LAMP ONCE A WEEK.

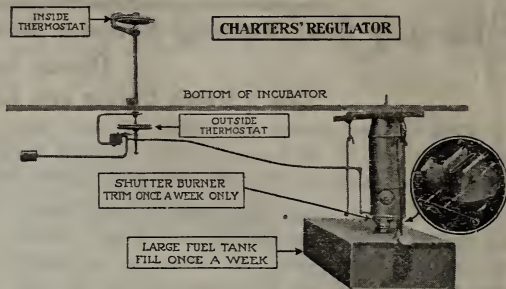
WE HAVE TESTED THEM OUT AND THEY CERTAINLY WORK TO PERFECTION.

Can be attached to any make of incubator. Full directions with each outfit.

CONSTRUCTION: A burner with two shutters opening to and from each other on either side of the wick tube, an outside thermostat as well as an inside thermostat, both connected by the regulating device to these shutters, and a big fuel tank holding a WEEK'S SUPPLY of coal oil. These in brief are the important parts of Charters Regulator, a device which requires attention ONLY ONCE A WEEK instead of every day.

Charters burner is distinctly different from the old-fashioned sleeve type. No carbon can block its operation. With Charters Regulator you do not have to turn down your flame. This is done automatically. The outside thermostat expands, closing the shutters over the wick tube cutting the flame down to a pencil point, and holding the temperature within the egg chamber absolutely even. Note—The shutters are so constructed that the flame never goes entirely out.

One of the more important features of this wonderful regulator is proven when the hatch is coming off. Any experienced hatcher



knows that during the last three days of incubation period, when the chicks are pipping, is the critical time in the process of hatching. It is then that the ordinary incubator has to be watched closely. Heat generated by the hatching chicks runs the temperature up. Immediately with the increase of heat produced by the hatching chicks, the inside thermostat expands, pushing on the lever which closes the flame down to a pencil point. Thus automatically the heat is withdrawn without any intervention on the part of the hatcher.

Every owner of an incubator should investigate this Regulator. We sell it on a positive guarantee to do what is claimed for it or your money back. Remember it can be attached to any make of incubator.

PRICE.—Charters Regulator (oil burning), complete with lamp, tank and brackets, \$13.50; electric, \$14.00. (Wgt. packed, 20 lbs.)

CHARTERS 1921 INCUBATOR

These new machines come to us highly recommended. They are hot-water machines, built of select redwood, double top, ends and back. Nothing fancy, but sturdy and well constructed. Equipped with a large copper boiler built so as to allow a large heating surface to insure an active circulation of water through the coil. Hot-water pipes are 1 inch in diameter. Egg trays of metal and so constructed as to allow the chicks to drop down into nursery below

after hatching. The Charters is mighty good value for the price and every machine has the wonderful Charters Regulator (see full description above).

PRICES COMPLETE, F. O. B. PORTLAND
Small, 270 egg capacity.....\$60.00
Large, 540 egg capacity..... 90.00

Charters "Electric" same price. Combination, oil and electric, \$12.50 more.

Charters Descriptive Catalog on Request

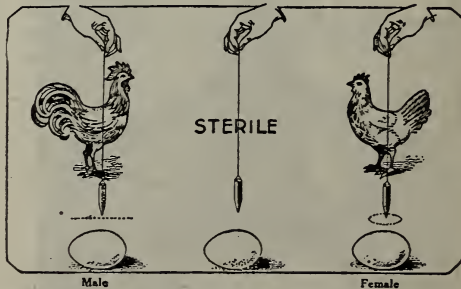
SEX INDICATOR AND EGG TESTER

WHAT IS IT? It's a "wonder"—looks simple enough, but only the inventor and patentee knows the combination. It is a little conical metal about 1½ inches long and ½ inch in diameter. The illustration above shows how to use it.

WHAT WILL IT DO? It will plainly show you by its action whether an egg, before it is set or hatched, will be male, female or sterile (not fertile). It also indicates the sex of any live or dead bird or animal (baby chicks, canaries, parrots, pigeons, etc.).

It will indicate the sex from which fur, leather, gloves, shoes, etc., was taken.

But the Sex Indicator and Egg Tester has for its object primarily to provide an indicator or tester designed to be employed for determining the sex of a life germ while in embryonic state or prior to its generation or birth, so that the eggs may be tested before being set for hatching when a greater number of females than males or



vice versa are desired, or which also serves to determine whether or not the egg is fertile in life germinating properties. It is further useful for persons collecting insects, etc.

Guaranteed to do what we claim or money refunded. Directions free. Price \$2.00, postpaid.

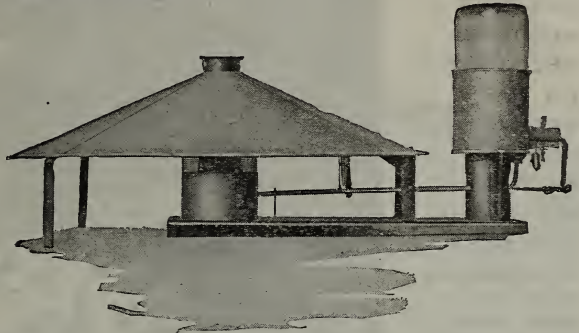
Note.—We have tested the Sex Indicator and know that they are a success.

CAL.

1921 NEWTOWN COLONY BROODER

A Blue Flame, Wickless, Oil Burning Colony Brooder—Automatic Regulator—Practical, Safe and Successful

For several years the coal-burning colony brooder has been generally recognized as the "acme of brooding efficiency," and we are still selling hundreds of them. The only trouble is that in some sections of this Western country it is troublesome to secure the proper grade of coal. Coal oil is obtainable anywhere. The Newtown is not an untried substitute. It is a success and today the Newtown is giving efficient service in every state of the Union and nine foreign countries. It is simple, safe, and durable—a real practical device.



Automatic Regulator.—The flow of oil through the sight feed dropper is automatically controlled by a powerful thermostat under the hover. This dropper is also provided with safety adjustments which make it impossible to feed too much or too little oil to the burner. This not only insures safety, but provides a constantly correct brooding temperature.

An Abundance of Heat.—In the matter of "spitting out heat," the Newtown is the most efficient brooder ever made. Every particle of heat produced by this powerful burner passes directly into the heat radiator. This radiator was designed especially to cause the heat to circulate so that practically every heat unit is utilized. Because of this exclusive Newtown feature these brooders can be operated in large buildings with larger flocks, with a minimum quantity of fuel.

There is no dirt from coal and no ashes to remove. You adjust the regulator at the start of the brooding season, light the burner, and all that is necessary is to fill the oil fount once every 24 to 36 hours.

Right Sizes—Right Prices

Each brooder is shipped with everything complete in one crate, all ready to operate. A thermometer and full instructions for operating are furnished with each brooder.

No.	Hover	Weight, Crated	Price
118	36 inches	90 lbs	\$25.00
125	52 inches	150 lbs.	32.50

Capacity of small size, No. 118, 300 to 500.
Capacity of large size, No. 125, up to 1,000.

Heat Properly Distributed.—The construction of the Newtown heater is such that the highest temperature is maintained near the outer edge of the deflector. There is no hot center, and consequently there is no crowding or piling up. The chicks hover in a circle around the outside edge of the deflector and each selects the temperature best suited for its individual need. This feature gives absolute comfort and fine growing conditions.

Air Always Fresh and Pure.—It is as impossible to keep foul air under the Newtown hover as it is to keep a rock from sinking in water.

The arrangement of the burner and heat radiator was designed especially to provide warm, fresh air under the hover.

The Glass Fount is easily filled, holds one gallon, and is located outside the hover. This prevents any possibility of over-heating the oil and absolute safety is the result.

The Heat Radiator is bolted into the top of the deflector. The heat from the burner passes into this radiator which assists the deflector in distributing it evenly over a large floor space. It also provides a larger radiating surface, and consequently insures the maximum heat with the minimum amount of fuel.

The Blue Flame Wickless Burner.—No dangerous gasoline is required to start the Wickless Burner. It burns coal oil (kerosene) with a steady blue flame. Combustion is so perfect that it gives off no smoke or odor and is perfectly noiseless in operation. The burner is surrounded by a safety thus entirely and safely enclosing it. The heat radiator also surrounds the burner, jacket and when the deflector is in position

The 1921 Newtowns show some valuable improvements that simplify the regulator and burner. We bought a car load this year. Four page descriptive leaflet on request.

WINFORD ELECTRIC HOVER BROODER

A very simple, satisfactory, economical and troubleless brooder for baby chicks. No corners to crowd into, even heat distribution. Simply lift it up to clean under it. Light, durable and no worry about filling a lamp or danger from fire. You can attach to direct or alternating current or the ordinary farm lighting systems. As an extra brooder or for any one raising only a limited number of chicks the Winford will give satisfaction.

F. O. B. PORTLAND PRICES.—No. 1, 75-chick size, \$8.50; No. 2, 150 chicks, \$12.00; No. 3, 300 chicks, \$15.75; No. 4, 500 chicks, \$22.00. Note—We think the makers over-estimate the chick capacity for use in ordinary places. Descriptive leaflet free.



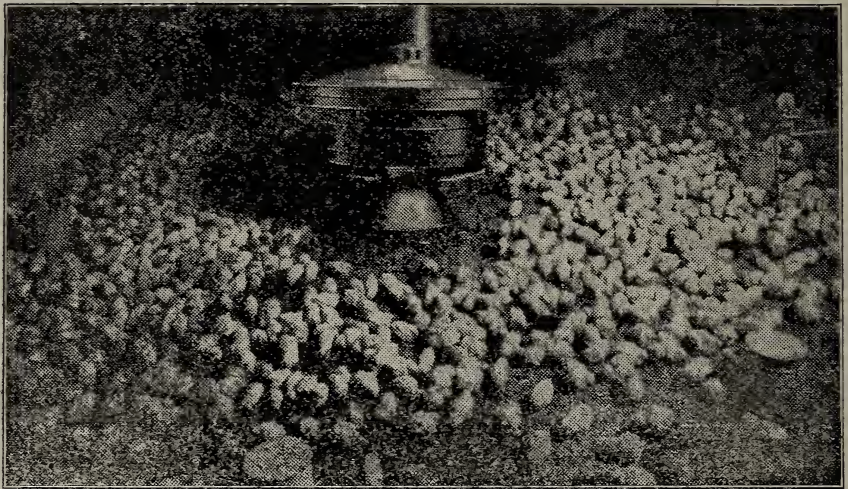
Winford Electric Hovers

Feed your baby chicks buttermilk with "Cholerine" in it—insures health, vigor and success.

Kresky's "Pride of Petaluma" Brooder Stoves

They burn oil, are self-regulating, work automatically, and give perfect satisfaction

KRESKY'S
BROODERS
RECOGNIZED
ON THE
PACIFIC
COAST
AS THE
SUCCESSFUL
AND MOST
ECONOMICAL
WAY OF
BROODING
CHICKS ON
A LARGE
SCALE. 500
UP TO 1500



The Kresky's at Work. "Some" Family, eh?

Kresky and His Brooder Stoves

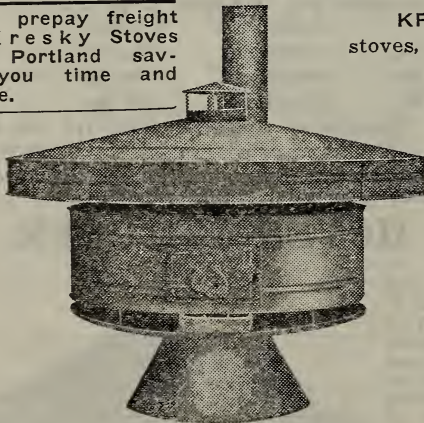
We have sold his Brooder Stoves to many of our customers, and so far have not had a complaint; on the contrary, we have only heard praises.

We cannot in the limited space on this page give you the details of construction of these wonderful brooders, but we do show you illustrations to give you an idea of what they are like.

NOW—If you are further interested and would like to learn more about the "Pride of Petaluma's" and "Kresky's Idea" of the proper method of brooding chicks drop us a card request and we will mail Kresky's large illustrated and descriptive 30-page catalog.

If you want a large capacity, perfectly reliable, economical and satisfactory oil-burning brooder, buy a Kresky. They have given excellent satisfaction. We can refer you to those who are operating them, if you wish.

We prepay freight on Kresky Stoves from Portland saving you time and trouble.



Style of No. 2-B and No. 4-B

KRESKY'S PARTS AND SUPPLIES—In addition to Kresky Stoves we aim to have complete stock of all parts and supplies offered in Kresky's catalog. See Automatic Water Valve, page 141.

Kresky's Stove Pipe Combination

You will need this to set up your outfit properly and you better order it with your stove, as Kresky pipe is heavier and sealed, very important in the operation of the draft. Outfit consists of one 24-in. and 1 30-in. galv. 5-in. pipe, five 24-in. black pipe, one saddle or roof plate, (state which you want and pitch of roof) one hood for pipe and one ceiling plate. Price Complete, \$7.30 and prepaid if ordered at same time as stove.

Kresky's 1921 Prices

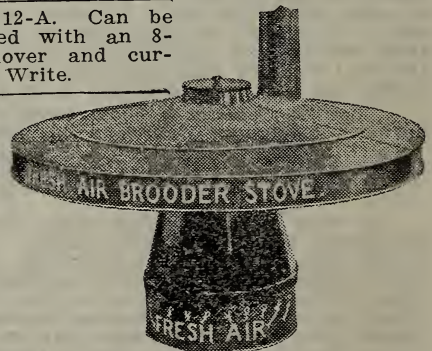
No. 2-B, 42-in. Radiator. Price \$62.50

No. 4-B, Northwest 50-in. Price \$65.00

No. 12-A, Fresh Air Model. Price \$55.00

KRESKY'S CATALOG—New catalog illustrates all stoves, parts and galvanized supplies. Free on request.

No. 12-A. Can be equipped with an 8-foot hover and curtain. Write.



Kresky No. 12-A

Equipment—Both No. 2-B, 4-B and the 12-A brooder stoves use the same automatic regulator, oil tank, oil pipe and thermometer and the complete outfits consist of 15 gallon oil tank, automatic regulator, oil pipe, special tested Kresky thermometer and all accessories needed to install and operate, except the stove pipe combination, which is not included in the price of the stove but can be supplied. See note above.

Full and complete directions for installing and operating are furnished free and found contained in the oil tank.

OAKES ECONOMY BROODER

ALL STEEL, LIGHT STRONG AND DURABLE

It furnishes plenty of heat with a small lamp flame and is guaranteed to give satisfaction in every respect. It is complete in itself and can be used anywhere, without any preparation, other than lighting the lamp.

It is made of steel throughout, and all parts are seamed or welded together, strong and durable. It is compact, light and all in one piece, so that it can be conveniently lifted by two handles and moved from one place to another without even disturbing the lamp.

SAFE, CONVENIENT AND ECONOMICAL

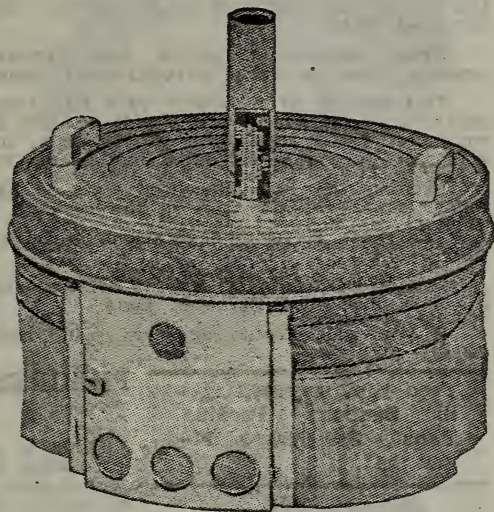
The lamp, lamp slide and lamp box form a very convenient combination, the lamp has Safety Burner, and the lamp box is fireproof.

The Economy Hover can be used anywhere with perfect safety and ONLY A VERY SMALL FLAME is required to keep up the temperature as the lamp is inside, and no heat is lost.

PRICES ECONOMY HOVERS

No. 2—100 Chick size (22-in. hover) ...\$13.00

No. 1— 50 to 60 chicks (18-in. hover) .. 9.50



Economy Hover Without Wire Cage

Perfectly Satisfactory

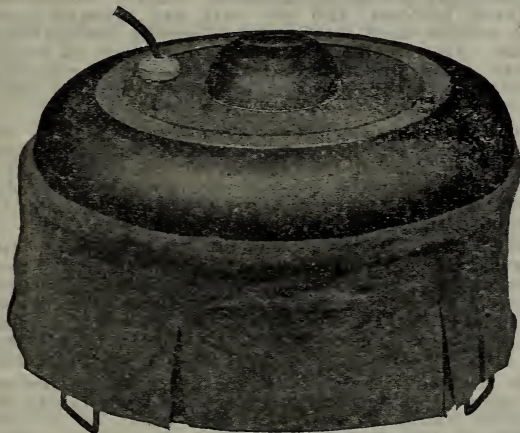
For the past two seasons we have operated the Economy hovers and found them very satisfactory. We like them better than any hover of this style or type. We recommend them.

Oakes Electric Hover

The Oakes Electric Hover is made on the same general principles and of the same high-grade material as the Oakes Economy and as it is lampless there is more room under it. It has a very sensitive and accurate regulator equipped with platinum contact points; heavy double curtain attached with large eyelets and hooks.

The Oakes Electric Hover is very inexpensive to operate, and will give you excellent results with the least possible care and trouble. Has many valuable features. Capacity up to 150 chicks.

ELECTRIC NO. 2, 22-inch hover, \$20.00.



Oakes New Electric Hover

Baby Chicks—Pure Bred Poultry

This department is under the management of our Mr. Geo. Routledge, poultry expert. Let us make your selections. Stock on display at our store during season. Prices on request. See page 19.

Scotfield, Ore., March 22, 1920.

Routledge Seed & Floral Co.

Sirs: I received the Baby Chicks O. K. They were in fine condition. Accept my thanks.

Respectfully,
J. R. DRURY.

Wishbone Mammoth Incubators

The poultry industry is rapidly growing and to meet the demand for incubators of a very large capacity we offer the "Wishbone Mammoth," ranging capacity from 1,600 to 32,000 egg. "Wishbone" has an automatic egg turner and all the latest labor saving devices that eliminate 35 to 50 per cent of labor in operating. You do not touch the eggs during the entire hatch. This certainly is worth considering. The "Wishbone" is highly recommended for the large percentage of strong, healthy chicks hatched. See a "Wishbone" in operation, or read the nicely illustrated Wishbone catalog before you decide on any other make.



Wishbone Trade Mark

We are Western agents and can give you real service.

OAT AND GRAIN SPROUTERS

The Perpetual Poultry Silo—grows green feed while you wait—makes two to four bushels of feed from one of grain—runs up the egg yield—cuts down the feed bill—insures the health and vigor of your poultry. Ask any authority or poultryman who has fed Sprouted Oats.

Every poultryman should feed Sprouted Oats, and the only satisfactory way to produce them is in a correctly-built, lamp-heated, sectional oat sprouter.

The feeding of Sprouted Oats has turned many a "dead expense" flock into profit-makers. Hens will not lay well on dry feed alone. They need green feed winter and summer. Beets, cabbages, alfalfa, etc., are good in their way, but latent green feed does not have the wonderful quickening virtue of the young, growing oat sprouts.

Feeding the hens Sprouted Oats is like turning them out in spring on the young, tender grass—lots of eggs is the result.

The State Experiment Stations and the national egg-laying contests all feed Sprouted Oats.

If you want lots of eggs in winter when the price is high and in summer when the grass is dry, feed Sprouted Oats.

If you want fertile eggs in spring and strong, virile chicks, feed the hens Sprouted Oats.

Feed your sprouted oats in Sanitary Feeding Pans. See pages 140 and 141.

PROGRESSIVE METAL GRAIN SPROUTER For 500 Hens or Less

This is an ideal sprouter for large flocks. It contains a soaking tank at the top and when ready to empty the soaked grain into the top section, the tank is easily inverted as shown in the picture. The grain and extra water is dumped into the top section and the extra water drains down through the other sections, moistening the grain, and then out through a drain pipe in the bottom.

Each of the four sprouting sections contain removable metal, perforated bottoms, and the oats are lowered each day from one section to the other by removing the bottoms to each section. On the fourth morning the grain is ready to take off and is in the lower section. Lamp is removed and box inserted, removable bottom pulled out and sprouted grain drops into the box ready to feed.

EASILY CLEANED.—Any good sprouter should be so arranged that it can be thoroughly cleaned, as slime and mold from the oats will in time cause sickness among the flock. This sprouter can be washed out with a hose and thoroughly cleaned, and it will last for years, as it is made of metal with exception of frame on outside.

EASILY HEATED.—One lamp of oil will generally last for seven days, as very little heat is required with this sprouter. The warm, moist air is carried up through the back double wall to each section. Each lamp is furnished with one of our O. K. Safety Air-Cooled Burners. Metal air shaft in the back carries warm, moist air to all the sections and also furnishes a mild heat to the soaking tank.

Sprouter is 60 inches high, 24 inches deep and 15 inches wide. Full capacity of this sprouter is about 28 quarts of dry oats, which would be sufficient for from 400 to 500 hens, depending on the system of feeding other foods. Furnished with thermometer, large capacity safety lamp and instruction sheet. Price \$22.00.



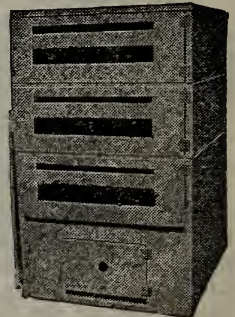
Progressive

O. K. OAT SPROUTERS

Just the right size for the small poultryman. Capacity one-fourth bushel per section, enough for 25 to 40 hens. More sections can be added as you increase your flock. The lamp will heat up to five sections. Easily cleaned. Soak the oats in a bucket one day before filling the trays.

Construction.—All metal, double walls, glass in doors. Base section, 13x16x20 inches, two trays. Weight, 25 lbs. Complete with safety lamp and thermometer. Price \$12.00.

Extra, two tray sections, 13x16x10 inches (weight, 10 lbs.). Price \$5.00.



O. K., with Two Extra Sections

Let us help you in your poultry work. Our free service department under the direction of George Routledge will be of help to you.

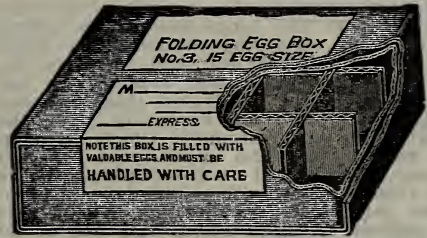
Up-to-date Egg Carriers

Order early so you will not be disappointed in your delivery. Prices below subject to changes.

Up-to-Date Egg Carriers

Do not class these "Up-to-Date" boxes with the cheaply constructed egg boxes that are made along similar lines. These are double strength and cushion frame on all sides. Note the illustrations carefully. Safe and reliable for the mailing or expressing of "fancy eggs" for hatching.

This has been a popular egg box for several years. Note the extra outside "slip-on" cover. A safe box for the expressing of fancy eggs, for hatching. Each egg can be wrapped in paper before dropping into its place, to keep them from shaking should they be smaller than the section.



15-Egg Size. Open Corner Showing Egg Cells

Size	Weight, Empty	Each	Doz.
15 egg	1 lb. each	30c	\$3.25
30 egg	1½ lbs. each	45c	5.00
50 egg	2¼ lbs. each	65c	7.00

Add postage if wanted by mail.

"Safety First" Parcel Post Egg Carriers

This egg packer is made just like our "Up-to-Date," see cut above, but of different capacity, and does not have the extra "slip-on" cover. Perfectly reliable for sending eggs by parcel post.

PRICES 4 SIZES			
1 Dozen size.....	Each 30c	Doz.	\$3.00
2 Dozen size.....	Each 40c	Doz.	4.25
3 Dozen size.....	Each 50c	Doz.	5.50
4 Dozen size.....	Each 60c	Doz.	6.50

Up-to-Date Baby Chick Boxes

These insure the safe arrival of your chicks

Well made, properly ventilated, made from the best grade of corrugated card board. Shipped in the flat, but quickly set up by anyone. The use of this box has made long distance express shipments of live baby chicks possible and safe.

Size	Weight, Empty	Each	Doz.
25 Chick	P. P. 1¼ lbs.	35c	\$3.50
50 Chick	P. P. 2¼ lbs.	45c	4.50
100 Chick	P. P. 3 lbs.	55c	6.00

Don't wait until your chicks hatch to order your boxes. Order early and be sure of stock when you want it.

NOTE—100 SIZE CHICK BOX TOO LARGE TO MAIL IN THE FLAT.

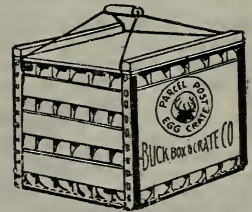


The Ideal 12 Egg Packer

Ideal Egg Box

Every poultry keeper who sells eggs should use these folding cardboard egg boxes to deliver eggs in. They are folded flat, but the corners are locked, all ready to open up and drop the eggs in. No errors in counting, as each holds just one dozen.

Price—Per doz. 30c (P. P. 1¼ lbs.); 100 for \$2.00 (P. P. 11 lbs.); 1,000, write for price.



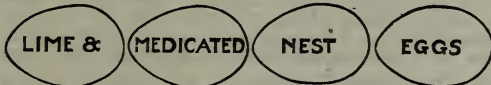
Buck 12 Doz. Parcel Post Egg Crate

Buck 12-Dozen Egg Crate

Made of wood, cardboard fillers. Very light, but strong; metal corners; holds 12 dozen eggs; lock wire bale, wooden handle. (P. weight 5½ lbs., set up.)

Each 60c; doz. \$6.50

POULTRY KILLING KNIVES

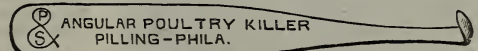


NEW MEDICATED—Answers as a nest egg, also an insecticide. Helps to keep lice out of the nests and off the laying or setting hen. Non-breakable.

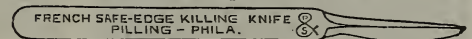
Each 10c; 3 for 25c; 12 for 85c; (Wgt. 2½ lbs. per doz.) Add postage.

LIME NEST EGG—Better than China eggs; non-breakable. More natural.

Each, 3 for 15c; 12 for 50c. (Wgt. 2 lbs. per dozen.) Add postage.



ANGULAR.—Nickle plated handle75c



FRENCH.—Nickle plated handle75c



ROBERT'S.—This is a very popular style. Full size, good grip wood handle, highest quality steel blade. Postpaid 75c

POSTAGE—In ordering above egg or chick boxes by parcel-post be sure you add extra money for postage. Otherwise we will send by express or freight.

Automatic Chick Greaser

(See illustration)—Every chick its own doctor. It is the large lice which collect on the heads of young chicks which cause them to droop and die; and formerly the only way was to catch each chick and rub grease on its head; but this slow and tedious process is not necessary since the invention of the Automatic Chick Greaser. The wick around the upper part of the greaser is saturated with Conkey's Head Lice Ointment or with a mixture of two-thirds lard and one-third kerosene (or oil) and every chick which eats out of the pan will get its head thoroughly greased in a very few minutes.

Can be moved from one pen to another.

NEW STYLE—Mailing wt. 2 lbs., add postage. Price \$1.50



Automatic Chick Greaser

Up-to-Date Shipping Coops

These coops are really "up-to-date" and will give your customers that impression of you if you use them when shipping. Buyers who pay fancy prices for thoroughbred birds like to see them come in a nice coop—not some old cracker box or oil case. These coops are light but strong. The ends have the cleats nailed on. We ship in the flat to save charges, but it's an easy matter to nail them together, for each part is marked.

Number	Width	Length	Height	Each	Doz.
NO. 2	10 1/2 in.	18 in.	24 in.	60c	\$6.60
NO. 4	10 1/2 in.	24 in.	24 in.	75c	8.25
NO. 6	19 1/2 in.	24 in.	24 in.	95c	10.75

For Parcel Post—No. 2 weight 10 lbs.; No. 4, 12 lbs.; No. 6, 18 lbs.

Capacity—No. 2 suitable for single birds or pair Mediterranean. No. 4 for Asiatic male, Am. or Med. pair or small trio. No. 6 for a pen of five birds, any variety.



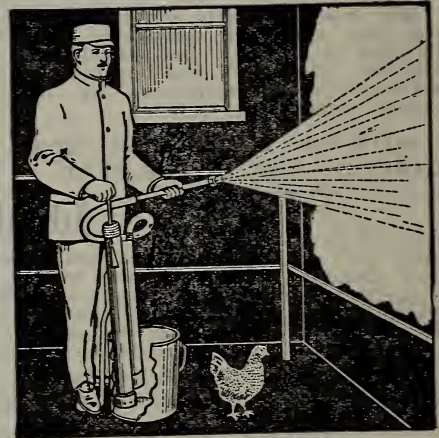
Shipping Coop

Whitewashing and Whitewash

The illustration here shows our No. 28 Whirlwind Sprayer in operation. No. 28 is made especially for whitewashing. See page 126 for price, etc.

NOW FOR THE WHITEWASH—This year we are offering to our good customers a cold water combined whitewash paint and disinfectant, called Creola. It comes in powder form and is mixed with either cold or hot water (full directions on each can.) It is so convenient, and so good, that we are sure you will like it. You can either spray it or paint it on.

For use in poultry houses, cellars, stables, fences, walls, tree trunks, etc. See page 123 for prices.



Egg Preservers

Pre-Egg-Server.—Soluble Water-Glass. This powder comes to us highly recommended, equal in every way to the old form liquid Water-Glass. Will keep eggs fresh for a whole year. One package to 10 quarts water is enough for a 5-gal. crock, or 15 dozen eggs. Full directions on each package. Price postpaid 25c pkg.

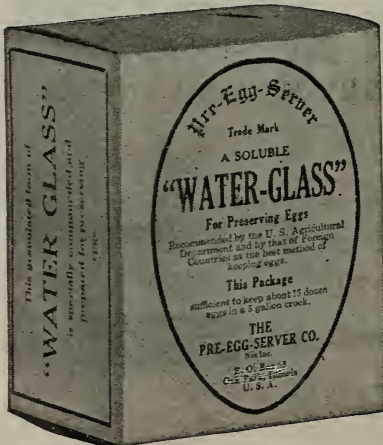
Yankee Egg Preserver.—Comes in flat tins and you simply rub it on the eggs, a child can do it. It will preserve the eggs for nine months or longer. No cold storage or special care required.

Price: Per Tin (enough for 3 doz. eggs), 50c postpaid.

Water-Glass (Liquid)—This is the old, well-known egg preserver in liquid form. Use 1 part Water-Glass and 9 parts water to make the solution to cover the eggs. (Cannot be mailed.)

Prices: Qts., 50c; gal., \$1.25; 5-gal., \$5.25

NOTE.—If you want 5 or 10 gal. crocks write for prices.



Keep your Poultry healthy and profitable by feeding Prepared Buttermilk and Cholérine. You try it; we have proved it.

CAPONIZING TOOLS

Poultrymen can double their profits by Caponizing the young cockerels. The operation is easily learned. The instructions are so full and explicit that any one, after a careful reading and a little practice, will be able to caponize.

The object of caponizing is to largely increase the weight of fowl, and to make the meat very juicy and tender. Caponize the males when they weigh about 1½ lbs. and sell them at 8 to 10 lbs. at a "fancy price." We offer good, practical outfits. Full directions with each set.

VALENTINES.—Made of high quality materials for a local breeder who claims it is the most practical set yet offered. Illustrated leaflet on request. Price \$4.50 postpaid.

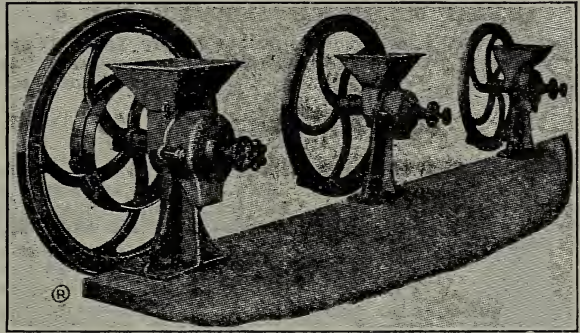
PHILADELPHIA is O. K. and has many admirers. Price, cardboard box, \$3.00; wooden box, \$3.50.

CORNELL—One of the new sets. Highly recommended. Price \$6.00.



STOVER GRINDING MILLS

In these mills are embodied all the good features of other hand grinding mills to which have been added universal burrs, or grinding plates that are quickly adjusted and locked for grinding coarse or fine. These mills will grind any kind of grain or seeds, dry bone, shells, crockery, etc. Made of high grade castings of tested strength and excellent finish. Four sizes. Descriptive leaflet on request.



NO. 32—Has a 16-inch fly wheel and is light running; the capacity is not equalled by any other of the same size. Weight 40 lbs. Price \$8.00.

NO. 33—About the same capacity as No. 32, but of heavier construction, fitted with a hardened steel worm, larger opening, more adaptable for grinding dry bone and oyster shells than No. 32. Size of fly wheel, 18 inches. Weight 45 lbs. Price, \$9.25.

NO. 35-B—This mill is equipped with combination fly wheel and pulley. Can be operated by hand or power with simple adjustments. Weight 60 lbs. Price, \$14.75.

Stover Grinding Mills

NO. 35—Larger capacity than No. 33; twenty-inch fly wheel, weight 55 lbs. Price \$11.25.

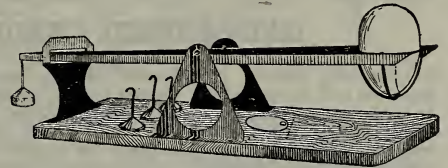
NO 32-D.—Fills a long-felt need in every kitchen or poultry yard, large capacity, has all the good features of No. 32, but is made with a clamp to fasten to table top and a hand crank in place of fly wheel. 16 inches high, weight 25 lbs. Price \$7.50.

EGG SCALES

All up-to-date poultrymen are now grading their eggs. Large eggs bring extra fancy prices and more profit to the producer. The classification and grades of eggs may vary in different markets. Ask your association or exchange for grades. We understand No. 1 eggs should weigh slightly over 22 ozs. so as to average 24 ozs. per dozen. No. 2 grade, 19 ozs. per dozen. There is so much difference in the market price of the two or three grades that it will pay every housewife egg buyer and producer to have and use egg scales. Also remember large eggs produce the strongest chicks.

GILT EDGE—(See cut)—Used throughout the U. S. Extra well made, yet simple in construction, quick and easy to operate, weighing capacity 18 to 29 ozs. per dozen. Price, \$2.10 postpaid.

STANDARD—Very simple in construction, yet very accurate and quick. Made in two sizes, 19 and 22-oz. grades. As they are so inexpensive and it is so handy to have the two grades all set, every one should have one or more of each size. Price, 60c each; 2 for \$1.10, postpaid. State which grade or sizes wanted.



Gilt Edge Egg Scales



Standard Egg Scale

GALVANIZED HEN NESTS



Galvanized Hens' Nests

GALVANIZED BOX NESTS.—Latest and best, full size, five compartments. Price: \$4.25 each.



Wire Nest

COPPER WIRE NESTS

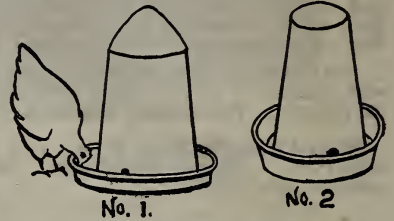
Sanitary, no place for lice to hide, easily cleaned, strong and well made; the only kind to use. Each 30c; dozen, \$2.75.

Up-to-Date Sanitary Drinking Fountains and Feeders

Increase your profits by saving the chicks. Start now by ordering sanitary, economical, up-to-date Fountains and Feeders. Note—When wanted by parcel post, add postage.

STANDARD FOUNTAINS NO. 1, NO. 2

Made in two parts, pressed out of heavy galvanized iron; will last for years. Easy to clean inside and out. (See cut.) Price, 1-qt., 45c; 2-qt., 60c; 4-qt., \$1.00. (Add postage @ 2 lbs. each if wanted by mail.)

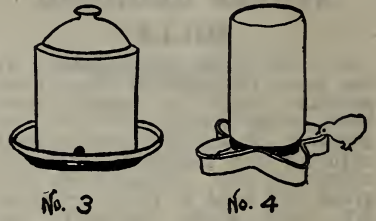


SANITARY STONE FOUNTAIN NO. 3

An old and popular style that keeps the water cool; see cut. (Not available.) Price, 1-qt., 50c; 2-qt., 75c; 4-qt., \$1.00; 8-qt., \$1.50. Cannot send parcel post.) Store price, not packed, 45c, 65c, 85c and \$1.25.

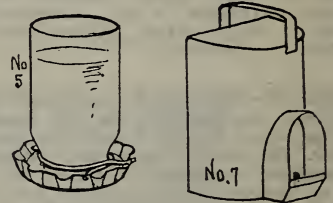
STAR CHICKEN SERVER NO. 4

Star shaped pan, very desirable; made from 1 piece of non-rusting metal; for chick feed or water. Any size in Mason jar fits it. Price, (without jars) 20c each, postpaid 25c each, \$2.50 dozen.



OAKES CHICK SERVER NO. 5

These consists of a 6-inch scalloped pan and a collar to fit any size Mason jar. You fill the jar, screw on the pan and turn it over. Perfect for small chicks, for they can't get wet. Price (without jar), 25c each, \$2.50 per dozen, postpaid.



WALL FOUNTAINS

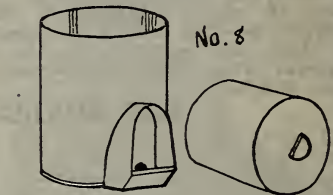
Very desirable for adult fowls; hang up on the wall or set on a platform out of litter and dirt; made of heavy galvanized iron.

NO. 7. CYPHER'S STYLE—Very popular and satisfactory. Price, each, 1/2-gal. (P. P. 2 lbs.) 70c; 1 gal. (P. P. 3 lbs.) 90c; 2 gal. (P. P. 3 1/2 lbs.) \$1.25.

CHAMPION TELESCOPE FOUNTAINS

This is the best and most popular style. The full length telescope top pulls out making it easy to clean inside.

NO. 8 CHAMPION—1/2 gal., 90c (P. P. Wgt., 2 1/2 lbs.); 1 gal., \$1.25, wgt., 3 1/2 lbs.; 2 gal., \$1.65, wgt., 5 lbs.; 3 gal. with 3 cups, \$2.75, wgt. 10 lbs.; 3 gal with 4 cups, \$3.00, wgt. 11 lbs. (Wgts. include packing for P. P.)



GALVANIZED FEEDERS

Made of galvanized iron; soon pay for themselves in preventing waste. Sanitary, closed top self-feeders for granulated bone, beef scraps, grit, shells, charcoal, dry mash, etc. If these necessary foods are kept before your fowls they will eat just what their systems require for profitable results; in other words, properly balance their rations. Hang up out of the litter.

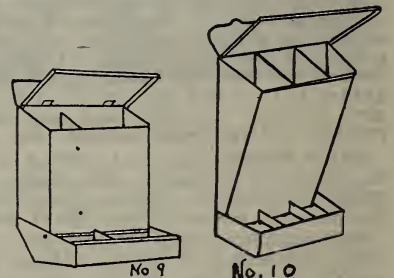
NO. 9 CHAMPION FEEDER. Two compartments, one holds 3 qts., the other 6 qts. (P. P. wgt. 4 1/2 lbs.) Each \$1.50 (See cut.)

NO 9-X CHAMPION FEEDER. The same shape as No. 9, with one large 9 qt. compartment, good for dry mash. (P. P. wgt. 4 lbs.) Each \$1.40.

NO. 9-XX CHAMPION FEEDER. Extra large size of above style. One 12 qt. compartment. (P. P. wgt. 5 lbs.) Each \$1.75.

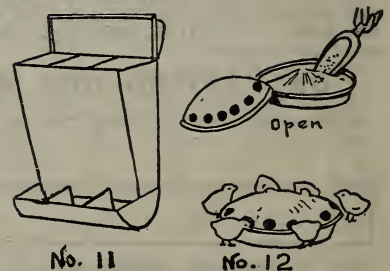
NO. 10 CHAMPION FEEDER. (See cut.) Has 3 compartments, each holding about 1 qt. (P. P. wgt. 4 lbs.) Each \$1.10.

NO. 11 MOE'S. Extra strong and well made; the feed trough at bottom is round. 3 Section, 3 pints each. (P. P. wgt. 4 lbs.) Each \$1.50. 4 Sections (P.P. wgt. 5 lbs.) Each \$1.85.



MOE'S CHICK SERVER

NO. 12. (See cut.) Practical and a great saver of feed. Chicks cannot get into it. For water or feed. Small (P. P. wgt. 2 lbs.), Each 35c; Large (P. P. wgt. 3 lbs.) Each 50c.

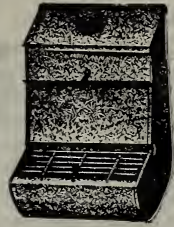


Don't forget to add postage if wanted by parcel post. **Weights given are packed.**

DRY MASH HOPPER

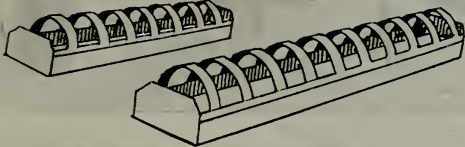
The curved bottom of the Hopper keeps the feed within easy reach of the birds. The gradual enlargement from the top to base prevents clogging. The wire grid and the wires running from the flange through the wire grid prevent any chance of the fowls throwing out or wasting the feed. The sloping cover prevents the birds from roosting on the Hopper, and when both covers are closed, it is rat and mouse proof. A trial will convince you that it is a Hopper of the greatest merit. Made of heavy galvanized iron.

- NO. 35. 8½ inches wide, capacity 12 qts. (Wgt. 4½ lbs.) Each \$2.20
- NO. 36. 12 inches wide, (Wgt. 7½ lbs.) Capacity 18 qts. Each \$2.85
- NO. 37. 24 inches wide. (Wgt. 12 lbs.) Capacity 36 qts. Each \$4.35



No. 36 Mash Hopper

SANITARY FOOD HOLDERS



Sanitary Food Holders

For Poultry and Ducks of All Ages—They are especially recommended for use in feeding mashes of any kind; steamed alfalfa or sprouted oats or dry grain. Saves 15 to 25 per cent in foodstuff. The top-guard keeps the fowls out, is removable, making them very easy to clean. Made of heavy galvanized iron; safe, sanitary, saving and serviceable.

- 12-In. Chick size (P. P. wgt. 1¼ lb.)...\$.60
- 18-In. Chick size (P. P. wgt. 2 lb.)... .85

- 20-In. Hen size 1.00
- 30-In. Hen size 1.65

KRESKY'S AUTOMATIC WATER VALVES

Keep your birds and stock supplied with fresh water, without any trouble. This is the latest and best valve or faucet, neat, compact and simple in design. Nothing to get out of order, self cleaning, working parts all brass, rust proof and long lived. As the water lowers in the trough or vessel below the float pulls down on the needle valve, opens it and releases enough to replace water consumed.

Kresky's Automatic Water Valves are for general utility purposes and will work against any water pressure and will work perfectly with any vessel eight inches or more in diameter, a large stock trough or tank. Can be attached to ½ or ¾ in. pipe, faucets not necessary.

The Valves are made up as follows:

VALVE NO. 1 is the general utility valve, having thread for ¾ inch pipe or ¾ inch faucet. Price, \$1.50; postpaid, \$1.65.

VALVE NO. 2 is the same as No. 1 except it has a lock nut on the side which allows the operator to open the valve, set the lock nut and allow water to flow until the lock nut is released. This is very handy in many cases and for the difference of cost it is not economy to do without this feature. Price, \$1.75; postpaid, \$1.90.

Full directions for attaching to pipes and operating supplied.



No. 1 Valve



No. 2 Valve

THE "GUARANTEED" AUTOMATIC WATER FOUNTAIN

The makers claim all the best features known are built in this fountain. Fills the pans or trough so full and no more. Equipped with a governing stem or screw that controls the water flow automatically and locks or acts as cut-off if weight of trough is removed. (See cut.) Descriptive leaflet on request. Price, \$2.00.

PIPE CONNECTIONS to fit ½ or ¾ in. pipe 25c extra.

AMERICAN AUTOMATIC FAUCET

Made entirely of brass, easily adjusted, very handy style. Has a hook to hang the bucket on. Pamphlet on request. Price \$2.00.

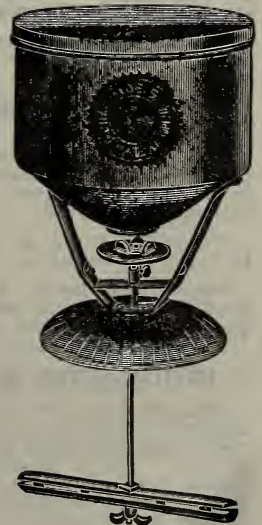
POULTRY VEGETABLE RACK — RABBIT FEEDER

Just the thing for feeding greens, beets, cabbage, kale, etc. Don't throw them on the ground or litter. This feeder holds them firm and the birds pick through the front wires. See illustration under Rabbit Feeders, page 155. Sanitary and worth the price. Each \$1.00.

MOE'S FEEDER AND EXERCISER

The best combined feeder and exerciser. Cannot clog. Swinging deflector scatters the grain all around, a little at a time. Holds enough to be of real service. Can be set to feed little or much. Hang in the scratching pen with straw on the floor. With this feeder, a good water fountain and dry mash hopper you can leave your chickens for a day or two and know that they are provided for.

- No. 52, holds 8 qts., 22 in. high, wgt. 5 lbs., Each\$2.25
- No. 53, holds ½ bu., 28 in. high, wgt. 9 lbs. Each\$2.85



High Grade

THERMOMETERS

Tyco's Tested

Without reliable accurate thermometer an incubator is practically worthless. Hundreds of hatches fail every year because of inferior thermometers and large numbers of brooder chicks are destroyed for the same reason. We sell the "Tyco's" tested, recognized as the most dependable.



Incubator Thermometers

TYCO'S CERTIFIED.—Same style as No. 22. Scale is etched on glass tube as well as metal back. "Certified correct," worth the price. Each \$1.50.

NO. 22 "TYCO'S"—Very popular. Generally suspended on string or wire on level with eggs. Each \$1.25; wire hanger 10c extra.

NO. 22 1/2 MODEL—Same shape as No. 22, but not as high grade. Each \$1.00.

NO. 20.—"Tyco's Tested," used in Buckeye and Queen incubators. Each \$1.25.

NO. 23 TYCO'S—Has folding legs, adjustable; to be set up in egg tray. Postpaid \$1.25; Model, same style, 75c.

Brooder Thermometers

NO. 29 1/2—Tyco's high grade white figures on black metal scaled from 60 to 130 above; temperature readable from above the hover. Used in Economy, Buckeye, or any brooder. Postpaid, each \$1.50.

NO. 29—Same style, silver face, black figures. Price \$1.25.

NO. 30—(See cut.) Long round wood holder. Used in Cypher's Adaptable or Portable hovers, also brooder houses. Postpaid, each \$1.00.

NO. 28 NEWTOWN—(See cut.) To hang under the large hover, high grade, desirable style, scaled.

KRESKY'S SPECIAL—Extra large. Price \$1.00.

NO. 5120—For general household use or brooder houses. Scaled from 10 below zero to 120 above. Metal face, wood back, 8 inches. Price \$1.50.

NO. 5121—Same as above. Scaled from 10 below to 100 above. Price \$1.25.

NO. 5410—Black Japanned, 8-inch case. Scale range from 20 below to 120 above. For household or brooder house. Price \$1.25.

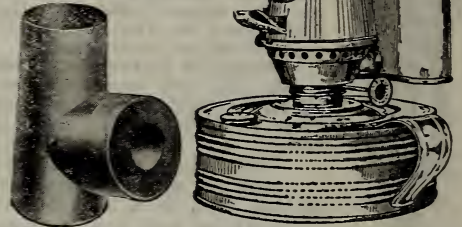
INCUBATOR HYGROMETERS

NO. 40—(See cut above.) "Moisture Indicator." Millions of chicks die in the shell every year, for want of proper moisture conditions. Use a Hygrometer to show you proper conditions. Price with full directions, \$2.25. Extra wicks, 15c each. Descriptive booklet on request.

X-RAY EGG TESTER

Used to test fertility of eggs and show size of air cell during incubation. Use on an ordinary lamp (No. 2 burner), in a dark room.

Price, postpaid, 60c.



X-Ray

Oake's Safety Lamps

OAKES HYDRO SAFETY LAMPS

Made especially for incubators and brooders. Fill the water jacket full of cold water to keep the oil and burner cool and perfectly safe. Economical and satisfactory in every way. The best incubator and brooder lamp made.

- No. 1—7 1/2 in. high; 5/8 in. wick (P. P. wgt. for mailing, 1 1/2 lbs.)\$1.50
 - No. 2—8 in. high; 1 in. wick (P. P. 2 lbs.) 2.00
 - No. 3—9 in. high; 1 1/2 in. wick (P. P. 3 lbs.) 2.25
- Add postage for mailing.

LAMPS, BURNERS, ETC.

- Queen Lamp 6x4 inches, complete\$2.50
- State size of burner or wick wanted.
- Queen Lamp, 7x10 inches, double burner for 25, 35 or 45 incubator 4.50
- Queen Lamp Burners (state size) 1.00
- Queen Lamp Flue (chimney)50
- Queen Wafer Regulator 1.25
- Cypher's No. 2 or 3 Lamps, complete .. 3.25
- Cypher's Lamp Burners, Nos. 2 or 3 ... 1.25
- Cypher's Gas Heaters (Burners) 1.25
- Lamp Wicks (state size) each 5c; Doz. .50

QUEEN REPAIRS OR EXTRAS—We have an illustrated and descriptive booklet giving price list of repair parts and fixtures for all models, old and new. Free on request.

Leg Bands for Poultry and Pigeons

Mark your different birds so you can tell certain stock or strains. Every bird must be marked with a numbered band before it can be entered in a show.

CHAMPION ADJUSTABLE

This is our most popular numbered band. Put up in packages numbered 1 to 12, 13 to 25, 26 to 50, 50 to 100, and boxes 101 to 200, 201 to 300, and in even hundreds up to 1,000. **NOTE.**—We do not break these packages. **PRICES:** 12 for 20c; 25 for 35c; 50 for 60c; 100 for 80c; 500 up at 70c per C.



This band (see illustration above), is made in one piece and adjustable to fit any fowl. They will stay where you put them. Held by double lock. Made of aluminum with raised figures. Not made for baby chicks or pigeons. After fitting, clip surplus end off with shears.

COLORED SPIROL-CELLULOID BANDS

You have no ends to fasten together—made on the same principle as a key ring. Once put on they stay till taken off and do not chafe the leg. The ease with which these bands are used will be a revelation to the man who has used other style leg bands. And best of all they can be used again and again.

Durable, Practical, Economical. They provide instant identification without handling the birds. You can identify birds as far as you can distinguish colors, which will show you according to your markings, the early or late hatched pullets, the yearlings or 2-year-olds, your different matings, and so on. Fine for baby chicks. Made in ten colors: Red, White, Pink, Yellow, Light and Dark Blue, Black, Purple, Green and Garnet. They do not fade and are weather-proof.

ORDER BY NUMBER, AND STATE COLOR WANTED.

NO. 1, Baby Chicks; No. 2, Pigeons and Bantams or half-grown chicks; No. 3, Leghorns, all Mediterraneans and Spanish; No. 4, Rocks, R. I. Reds and American classes; No. 5, Asiatic classes and Ducks; No. 6, Asiatic Males, Turkeys and Geese.

PRICES: Any Color Poultry Size.—12 for 20c; 25 for 35c; 50 for 60c; 100, 90c; 500, up @ 80c per 100. Postpaid.

BABY CHICK size—12 for 20c; 25 for 30c; 50 for 50c; 100 for 65c; 500 up @ 60c per 100. Postpaid.

OPEN ALUMINUM CHICK BANDS.—Prices postpaid, 12 for 15c; 25 for 30c; 50 for 50c; 100 for 75c.



SPIROL

SEAMLESS NUMBERED PIGEON BANDS
—Prices, 12 for 35c; 25 for 60c; 100 for \$1.50.



No. 8 — Economy
No. 7 — Sure
Clinch.



ECONOMY COLORED POULTRY BANDS

Handsome, two colored, 1/2 inch wide, aluminum back, celluloid face, well made and durable. Large plain, double numbers from 1 TO 300 in red, green, pink, blue and black. Fasteners very secure if doubled back and pressed tight. We can supply these only in Leghorn and Rock sizes. Prices, 12 for 35c; 25 for 60c; 50 for \$1.00; 100 for \$1.75 postpaid.

ECONOMY COLORED PIGEON BANDS

Same width and style as above, with double numbers up to 100; single numbers above 100, as the band is not long enough to take the large numbers. Same colors as above. This band comes in pairs only. Prices, 6 pair (12 bands) 30c; 25 pair 75c; 50 pair \$1.40.

SURE CLINCH ADJUSTABLE BANDS

This new aluminum band is very neat, smooth and well made, 3/8 inch wide, adjustable to 3 sizes. Note the 3 holes in illustration. We offer this band as superior to the old style double clinch. Numbers from 1 to 1,000. Prices, 12 for 20c; 25 for 35c; 50 for 60c; 100 for 85c; 500 up at 75c C.



Stearns' Poultry Marker



POULTRY MARKERS

Used for marking the web between the toes of baby chicks, if you wish to know different strains or stocks. Colored leg bands are now more popular.

Pettes'—(See illustration.)

Postpaid, 25c

Stearns'—(See illustration.)

Postpaid, 40c

BE SURE TO STATE BREED, BAND NUMBERS AND COLOR WANTED.

Routledge's "Highest Quality" Poultry Foods

Don't invite disease and loss by using old pans, open dishes or wooden troughs. See page 141.



The poultryman who feeds the "Highest Quality" poultry foods, even though it is a little higher in prices, makes more profit than he who is content with cheap mixtures or low grade grains because it costs less.

The demand for our poultry foods is enormous among the poultry raisers, for they have found out that we supply only highest quality foods. They also appreciate the fact that we give them wholesale prices in 5, 10 or 20-bag lots. We have no dealers to protect.

ABOUT PRICES: All prices are subject to important market changes and F. O. B. Portland. Write for prices at any time or order at following prices. If you send too much we will refund, if not enough we will bill you for balance due if you'll remit. Instruct us, please.

FISH MEAL—H. Q.

The grade we sell is the best obtainable, it contains nothing but pure fresh fish properly processed and will not taint the eggs. Fish Meal is rapidly taking the place of Beef Scraps, Beef and Meat Meal, Blood Meal, etc., as it contains more available animal protein.

Prices: 5 lbs., 45c; 10 lbs., 80c; 50 lbs., \$3.45; 100 lb. sk. \$6.25; 5 to 20 sks. @ \$6.10.

BEEF SCRAPS

Our "Highest Quality" beef scraps are rich in materials which make bone, muscle and lean meat. They insure health, thrift and vigor, and satisfy the natural craving of the bird's system for flesh-food in some form. Rich in protein. Can be fed dry or with cooked rations. Don't waste any, feed in one section of Sanitary Feeder. See page 140.

Price: 1 lb., 10c; 5 lbs., 45c; 10 lbs., 80c; 50 lbs., \$3.75; 100 lbs., \$7.25.

GRANULATED BONE—"SPECIAL"

We offer only highest quality, white, pure and clean. Rich in phosphates, lime and protein. Should be kept before your chickens at all times. Feed in a Sanitary Shell and Grit Box. (See page 140.)

Price: 5 lbs., 25c; 10 lbs., 50c; 100 lb. sk., \$4.25; 5 to 20 lbs. @ \$4.10.

POULTRY MUSTARD

Ground fine. 1 lb., 25c; 6 lbs., \$1.20

OYSTER SHELL, CRUSHED

Best grade pure hard Eastern oyster shell, crushed and sifted. Supplies lime material for egg shells. Does not take the place of Grit as some think. Hens must have both shell and grit. Oyster shells should be within reach of your hens at all times.

Price: 8 lbs., 25c; 100 lb. sk., \$2.25; 5 to 20 sks. @ \$2.10.

GRIT—Best Grade

Every poultry raiser should keep a supply of this grit in each pen. Baby chicks and ducklings must have it. Made in three sizes, chick, pigeon or broiler and hen size. We always send hen size unless otherwise ordered.

Price: 4 lbs., 10c; 12 lbs., 25c; 100-lb. sacks, \$1.75; 5 to 20 sks. @ \$1.60.

CLOVER OR ALFALFA MEAL

The best substitute for green food for winter feeding; helps keep the egg basket full; mixed with the soft feed is good for large or small chicks; endorsed by leading experts.

Price: 1 lb., 10c; 10 lbs., 50c; 100 lbs., \$2.25.

CHARCOAL

Our stock is prepared especially for poultry and of highest quality obtainable; a preventive of bowel trouble, sour crop and indigestion; a health preserver. State size wanted. A for mash, B for chicks, C for large chickens or hens.

Price: 1 lb., 10c; 3 lbs., 25c; 10 lbs., 75c; 50 lbs., \$2.50; 100 lbs., \$4.75.

POULTRY PEPPER

A good tonic and invigorator. Ground.
Price: 1 lb., 30c; 5 lbs., \$1.35; 100 lbs., \$25.00.

Conkey's Buttermilk Starting Feed for Young Chicks

When we speak of Buttermilk Starting Feed put out by the Conkey Co., we are talking about the best starting feed on the market to our belief. It is a mixture of finely ground grains and coarse meal with the buttermilk added in a dry form, all mixed together to be fed dry. Feed in hoppers 4 or 5 times daily, giving only a little at first, gradually increasing the amount until the tenth day. Then keep it before them continually until they are 2 or 3 months old. They should have chick feed in addition to Conkey's Buttermilk Starter fed in the straw litter. Many of our largest and most successful breeders insist on our supplying this in spite of the increased cost. (We buy it in carloads.)
PRICES: 5 lbs. 50c; 12 lbs. \$1.00; 50 lbs. \$3.50; 100 lbs. \$6.50.



Conkey's Buttermilk, Meat, Bone and Grain Mash

If you want a real mash feed of merit do not overlook this wonderful mixture of the things necessary to produce eggs. We have sold this for years and in spite of its high price it will produce enough more eggs to pay for it, over anything we have ever found. When you consider the actual amount of meat, bone and dry buttermilk in it you will readily see the value.

Try this on your flock and watch the egg records. Feed dry and keep before them all the time in our feed hoppers. It's a rich and profitable food that gets results when nothing else will. Feed your grain ration in litter in addition.

Prices: 5 lbs. 40c; 10 lbs. 75c; 50 lbs. \$3.15; 100 lbs. \$6.00. Write for quantity price.

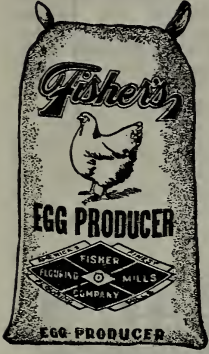
Prices subject TO IMPORTANT MARKET CHANGES. Write when ready to buy or order at above list. We'll refund if prices are lower or bill for balance, if more.

FISHER'S FEEDS FOR POULTRY

"Guaranteed Analysis"

A trial will convince you of their superiority over the much advertised "local brands"

Three years ago we took up the sale of the Fisher's Flouring Mills Co. line of Poultry Foods, because we decided that the Fisher's Foods were the best that money and experience could produce. Our sales are still increasing and thousands of our customers now agree with us that Fisher's Poultry Foods are unequalled in quality and always the same. Prices change but the formulas never and you can always depend on getting full value. We claim they are the cheapest because the most profitable. We are in a position to quote the lowest prices. Our warehouse price is the same as Fisher's Mill price. Call at our warehouse and save a long haul and \$2.00 ton.



FISHER'S CHICK FEED

Feed this as a first feed to the baby chicks, but not until they are at least 48 hours old, figuring from time they are taken out of incubator.

Feed several times a day just a little at a time at first on a board or in feed hoppers. After two days scatter it in the straw litter and make them work for it. Chick feed should be fed for at least two months.

After four or five days start feeding our Chick Starting Mash in addition to the Chick Feed giving just a little three times daily, increasing gradually. (See instructions under Starting Mash. Don't forget "Cholerine" for chicks—it pays big.)

Prices: 4 lbs., 25c; 9 lbs., 50c; 100-lb. sacks, \$4.00; 5 to 20 sacks @ \$3.90.

FISHER'S CHICK STARTER MILK MASH

Start feeding this when chicks are four or five days old in addition to our Chick Feed. Give just a little at a time, three feeds daily, gradually increasing the amount to what they eat up clean in 10 to 15 minutes until they are 10 days old, when it can be left in the hopper before them for an hour or two for a few days, then leave it before them all the time until they are three to four weeks old—but feed Chick Food three times daily in addition in litter, as much as they clean up in 30 minutes.

Prices: 3 lbs., 25c; 10 lbs., 65c; 100-lb. sacks, \$4.50. Read about Conkey's Buttermilk Starting Feed for young chicks, page 144.

FISHER'S DEVELOPING MASH

When chicks are four weeks old put them on Developing Mash, feeding in hoppers, having it before them continually in addition to regular grain feeds. This is a great feed to build the chicks up making healthy, strong pullets and will develop them so they can be ready to start the year's work in a vigorous condition. Feed until ready to put them on egg mash rations which should be changed gradually by mixing the two together, slowly increasing the Egg Producer Mash so they are on it complete at about six months of age.

Prices: 5 lbs., 25c; 10 lbs., 50c; 100-lb. sacks, \$3.80; 5 to 20 sacks @ \$3.70.

(See Mash Hoppers, Feeders and Founts, pages 140-141. "Cholerine" helps them digest the food. See pages 1 and 162.)

FISHER'S GROWING FEED

This meets the wants of the growing chicks from the time they are eight to ten weeks of age until ready for scratch food. It contains the nutritive elements necessary for the rapid building of tissue and if fed Developing Mash will bring about the quickest possible development.

Prices, 4 lbs., 25c; 10 lbs., 50c; 100-lb. sack, \$3.85; 5 to 20 sacks @ \$3.75.

FISHER'S FATTENING MASH

Prepared expressly to meet the wants of the fancier who lacks weight in his show birds or the grower desiring to quickly fatten and finish young or old stock for the market. It will quickly add weight to a mature or growing fowl.

Prices: 4 lbs., 25c; 10 lbs., 50c; 100-lb. sack, \$3.80; 5 to 20 sacks @ \$3.70.

FISHER'S SCRATCH FEED

It is composed of such an attractive variety of wholesome grains as will induce the fowls to scratch and work for it when thrown in the litter; otherwise it would defeat the purpose to feed nothing but whole grains. When fed with Fisher's Egg Producer or Buttermilk Mash, it makes an ideal balanced ration, supplying the necessary materials for yolks and whites of the egg. Experienced Poultrymen recognize it as the best scratch food the market supplies.

Prices: 5 lbs., 25c; 10 lbs., 50c; 100-lb. sack, \$3.45; 5 to 20 sacks @ \$3.35.

FISHER'S EGG PRODUCER

A mash mixture containing all the ingredients necessary to the matured laying hen; very rich in protein. It renders unnecessary the feeding of blood meal, beef scraps, etc. The rapidly increasing demand for Fisher's Egg Producer proves its real money-making value. Results will prove this the most economical mash on the market.

Prices: 5 lbs., 25c; 10 lbs., 50c; 100-lb. sack, \$3.55; 5 to 20 sacks @ \$3.45.

FISHER'S PIGEON FEED

In compounding a food for pigeons, the proper selection of various grains is of great importance, especially so during the breeding season and when squabs are to be marketed. The health of the birds and the weight of the squabs are dependent upon correct feeding.

Fisher's Pigeon Food is the most reliable and satisfactory mixture of the best grains obtainable for this purpose.

Prices: 4 lbs., 25c; 9 lbs., 50c; 50 lbs., \$2.25; 100 lbs., \$4.15. Write for quantity price.

DAD'S ELECTRIC LANTERNS—Every poultry keeper needs one. It's always ready—no danger of fire; makes a REAL LIGHT. See page 129.

Spratt's Cooked Foods

A cooked food for Chickens, Pheasants and Turkeys. Three sizes.

Spratt says: "Our experience of over 50 years in the poultry game and dog-food business convinces us that a predigested cooked food, the basic ingredients of which is wheat and meat, solves the problem successfully." It promotes health, strength and vigor.

Spratt's Poultry Food is a cooked food and therefore easily digested. It should be mixed with sufficient (hot) water or milk to make it crumbly moist, not too dry, yet not sloppy. Generally fed in the morning and a grain food at night.

As a conditioner for show birds it has a great reputation among the Fanciers. It puts the birds in good "Condition," i. e., good health, right weight, good plumage and radiating energy and "pep." It's good policy to feed Spratt's Poultry Food all the year round if not as a steady diet as a change of foods. Oregon's largest pheasant farms feed it in great quantities.

This food, after being cooked and baked, is reground into three sizes:

No. 12—Pinhead size for baby chicks.

No. 5—Rice grain size, chicks over 3 weeks.

No. 3—Split pea size, adult birds.

In ordering be sure and state size wanted.

PRICES—1 lb., 15c; 5 lbs., 70c; 10 lbs., \$1.30; 25 lbs., \$3.00. Write for quantity prices. Postage extra.

Fisher's Milk Mash

Multiply your hen's power by feeding Fisher's Buttermilk Mash, a mash mixture containing the right elements in proper proportions for egg making and body maintenance. It provides the life and vigor promoting fat, keeps the layers in prime condition throughout the year, is strong in egg-making materials, appetizing, easily digested.

Balanced with Fisher's Scratch it completes a balanced body maintaining and egg making nourishment. It keeps the layer up to maximum capacity the year round.

Prices: 4 lbs., 25c; 10 lbs., 50c; 100-lb. sack, \$3.80; 5 to 20 sacks @ \$3.70.



We can supply Lactein Liquid Buttermilk to those who like it.

Prices: Bbl., \$31.50; 10 gal., \$7.50; 25 gal., \$17.50; 5 gal. kegs, \$4.00; gal., \$1.25.

Don't forget to paint your houses inside with our "Creola" Whitewash Paint. It don't rub off. See page 123.

Paint or spray the perches, dropping boards and walls around perches with Routledge's Lice and Mite Killer. It penetrates the wood, lasts longer than others. See page 147.

Semi-Solid Prepared Buttermilk Kondensed

THICK AS BUTTER—100% DIGESTIBLE—WE RECOMMEND THIS PRODUCT

Semi-Solid Buttermilk is pure creamery buttermilk with the water eliminated.

All successful poultrymen recognize the value of buttermilk both as a food, tonic and conditioner for poultry, but the difficulties attended with getting fresh buttermilk make it a practical impossibility for the poultryman under average conditions. In the main these difficulties are excessive cost, inconvenience, trouble and expense of handling, and poor keeping qualities. Semi-Solid Buttermilk eliminates all of these difficulties and reduces the cost to a mere trifle.

The lactic acid contained in Semi-Solid Buttermilk is unsurpassed as an appetizer, tonic and conditioner.

For Poultry, All Kinds

Feed them Semi-Solid Buttermilk with "Cholerine," and eliminate the dreaded disease—white diarrhoea. This combination destroys bacterial growth, eliminates bowel trouble, and keeps your chicks in a healthy growing condition. Successful poultrymen are feeding it to laying hens to produce more eggs and a higher percentage of fertility. Commercial poultry fattening plants are feeding it to increase the appetite and quicken the gains in weight. Buttermilk fattened poultry have a flavor that is unexcelled.

Semi-Solid Buttermilk is guaranteed to contain nothing but the solids of pure creamery buttermilk. Only the water is removed. It is absolutely safe to feed and will keep indefinitely in a cool place. After opening container keep water over surface or press thick paper down over it. Keep sides of barrel scraped clean. Leave the lid off; a wire screen is better.

DIRECTIONS FOR FEEDING.—Mix 1 lb. (1 pint) with 6 tablespoonsful of Cholerine with 2 gallons of water. Let them drink it or mix in mash feeds. Try it, it's great.

PRICES: Semi-Solid is bought and sold by weight. For your convenience in ordering we figure average barrel weight 450 lbs. Price about \$33.00; one-quarter bbls., about \$11.00; 5 gal. kegs, net, \$6.00. Put up in 2 qt. jars for city trade. NOTE.—Remit at above prices. If weights are more or less we will refund or send bill for the balance. Descriptive folder free.

For Hogs and Pigs

Keep Them Healthy and Growing

If you wish to bring your hogs to market quick, weight two pounds Semi-Solid and three tablespoonsful of "Cholerine" for each hog per day, and add one gallon of water for each one pound Semi-Solid, mix well. Let your hogs drink this amount every other day along with their regular feed. The result—you will market your hogs much sooner, and you will save more than half of your regular high-priced feed. These are proven facts.

Millions of Baby Chicks die annually. Diarrhoea kills them. Cholerine saves them. White Diarrhoea is a Germ disease. Science has proven this, and has located the microbe. This disease is not only prevented but eradicated by CHOLERINE. We have proved it



CALF MEAL

"HIGHEST QUALITY"

AN-FO CALF MEAL is a food that nourishes calves practically as good as whole milk at one-quarter the cost. Start calves on whole milk, leave out the milk a little at a time replacing with AN-FO Calf Meal and water. When four weeks old all calves need is AN-FO Calf Meal, water and hay. AN-FO CALF MEAL is the richest in fat food. Used with skim milk it substitutes other digestible fats for the butter fat, making a food closer to whole milk in food value. AN-FO CALF MEAL does not scour, but acts to stop scouring. Ordinary digestive troubles that cause scouring usually stop after a few feedings of AN-FO. Give calves a good start by feeding AN-FO; well nourished calves make better cows. Calves raised on AN-FO Calf Meal won prizes at 28 state and county fairs in 1920, in competition with whole milk fed calves. Free sample for 10c postage.

Prices: 25-lb. sacks, \$1.80; 50 lb. sacks, \$3.60; 100-lb. sacks, \$6.75.

Oculum for Poultry

"OCULUM" is not a stimulant but is a SCIENTIFIC GERMICIDE. It destroys disease germs in the bowel and keeps fowls healthy.

DIRECTIONS FOR FEEDING

Use one drop of "OCULUM" a day to each grown fowl (or 10 drops to each pound of feed) 5 drops to a quart of water. A teaspoon holds 60 drops.

Mix the "OCULUM" with water (just enough to sprinkle), and sprinkle the feed with the mixture, stir it and cover it up and the "OCULUM" will penetrate the feed in thirty minutes. "OCULUM" mixes with feed wet or dry, whole or cracked grain. It mixes best with scratch feeds.

"OCULUM" may be successfully used in water, but 5 drops to the quart of water daily for 30 days as a tonic.

You can feed "OCULUM" treated feed with PERFECT SAFETY to any size fowl,

Ask for Pamphlets giving full information and testimonials.

Routledge Fly, Lice and Mite Liquid

KILLS BY CONTACT.—We recommend this liquid for use in poultry houses, barns, stables, coops, etc., as a killer and preventive. Spray walls, crevices and corners where they hide and breed.

FOR LICE AND MITES paint the roosts and spray thoroughly the drop boards and walls to kill the mites and eggs. It penetrates and lasts. Used occasionally it keeps the houses free of mites or lice.

Spray or paint the inside of nest boxes once every thirty days. This also helps to keep the lice off the hens. It will not taint the egg.

FOR FLIES.—It is excellent as a "Fly Spray" and it really "Kills 'Em." Spray lightly over the animal twice a day. Do not soak the hair clear to the skin, as too strong use might be harmful. Spray the stable before milking time.

FOR MOTH OR WEEVIL.—In drawers or bins where seeds, feeds, etc., are kept, paint inside with Routledge Mite and Lice Liquid once every six months to keep the weevil and moth out. It does not destroy germination of seeds or hurt the feeds.

GUARANTEE.—If after using Routledge Fly, Mite and Lice Liquid you are not satisfied, we will refund the money cheerfully. Use as directed.

PRICES.—By Express or Freight (not mailable) Quart cans, 65c; 2-quart, \$1.00; gallon, \$1.65; 5-gallon, \$7.50; 10-gallon (2 5-gallon cans in case), \$14.00; 50-gallon drum, \$70.00, with a rebate of \$15.00 for drum f. o. b. our warehouse.

"AN-FO" Made Prize Winners

Fairview, Ore., Oct. 12, 1920.

Routledge Seed & Floral Co.
Agents An-Fo Calf Meal.

Dear Sirs: This is to notify you that we have used (600) six hundred pounds of An-Fo Calf Meal since July 18th, 1920, and have very successfully raised sixteen registered Holstein calves on same.

At the Multnomah County Fair our calves took first prize.

I am highly satisfied with the use of your calf meal and will always continue to use same.

Yours very truly,
JULIUS LUSCHER.

Fisher's Calf Meal

Dairymen who sell whole milk must look for a milk substitute on which to raise their calves. Fisher's Calf Meal is a good substitute if fed as directed.

Fisher's Calf Meal is a scientific product produced under perfect sanitary conditions and contains the proper proportions of oatmeal, cornmeal, soybean meal, linseed oil meal, milo maize meal, blood meal and a little salt.

Prices: 25-lb. sacks, \$1.75; 50-lb. sacks, \$3.10; 100-lb. sacks, \$6.00.

from a day old chick up. Use "OCULUM" feed ONLY ONCE A DAY, all the fowls will eat. Feed "OCULUM" DAILY for ONE MONTH and then stop for one month, and so on.

PRICES: Trial size, 1 oz. (240 feeds), 15c; 50c bottles, 60c postpaid; \$1.00 bottles, \$1.10 postpaid; by Express, Pints, \$2.00; Quarts, \$4.00; Gal., \$10.00.

Extra Glass Syringes, 15c.

Oculum Oil for Stock

"Oculum Oil" is a scientific germicide for animals. Used in feed, it kills germs and worms in the organs of animals.

Sick hogs and sick sheep quickly relieved by its magic power. Sick horses and sick cattle made well again by its use.

PRICES: Trial size, 60c, or Half Pint, \$1.15 postpaid; by Express, Pints \$1.50; Quarts, \$2.50; Gal., \$7.50.

SPECIAL SYRINGE FOR ANIMALS, 25c

Baby Chicks, Poultry and Eggs, Pigeons

We'll send you any priced stock you want. Remember, Quality makes the price.



Routledge's "Egg Producing Strain" Baby Chicks

We are giving special attention to the three leading breeds: S. C. White Leghorns, Barred Plymouth Rocks and Rhode Island Reds. Our special stock will come from flocks that are **PROPERLY MATED** and have passed our inspections for **TYPE, VITALITY and PRODUCTION.**

NOTE.—No shipping order accepted for less than 50 chicks and all chicks shipped direct from incubator on days hatch is off. We will not ship weak chicks.

PRICES.—S. C. White Leghorns Eggs: 15, \$2.50; 100, \$14.00. Baby Chicks, Doz., \$3.25; 100, \$25.00; 1,000, \$240.00; 2,000 or more, \$225.00 M.

Rhode Island Red and Barred Rocks eggs per 15, \$3.00; 100, \$15.00. Baby Chicks, Doz., \$4.00; 100, \$30.00.

TERMS.—Order early and be sure of stock. We want 10 per cent deposit with order, and balance 10 days before delivery, or if sent C. O. D. for balance, you pay for collection.



Flash Light. Showing Display Coops at Our Pet Stock Department

Thoroughbred Poultry

We are in a position to supply you with most any breed of fancy poultry eggs or breeding stock. (Write for prices on other breeds wanted.) We know good stock and who keeps it, and due to our business connections can generally get our pick of the flock, so when you need any, give us your order and we will select the best bird possible for the money you wish to pay and will ship it guaranteed to please you.

REMEMBER high class egg producing or show type cost more than birds of lower vitality and the cock bird represents over 50 per cent of the breeding value.

PRICES.—Good Utility, Egg Type, range as follows: **MALES**—\$7.50 to \$15.00 each; **FEMALES**—\$2.50 to \$3.00 each; Fancy Show Birds by Quotation.

We can supply male birds for less money, but quality is what counts.

NOTE.—Don't expect eggs or stock by return express or freight, for it takes several days, sometimes, to get them in from the farm. We guarantee safe delivery of eggs or birds to any express office, and notify you before sent.

Poultry House Plans

By Geo. L. Routledge—Poultryairian

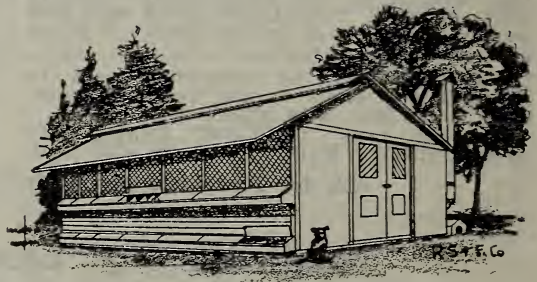
We have made large blue print plans for a modern chicken house embodying all the latest improved ideas in the construction to keep the fowls healthy by proper ventilation without drafts. Our aim has been to save labor in the building of the house and to make it easy to keep clean and free from vermine, as well as a labor saver in caring for the fowls.

In building a successful poultry house it is not how cheap but how good it can be made at a nominal cost, and we believe this is it.

The nests are in the front of the house away from the dropping boards where they will be free from mites if "treated."

The perches are so arranged that they can be moved easily as they are not made fast to the wall anywhere or they can be lifted up so the birds cannot roost in the day time. Under the dropping boards, it is light and airy, due to special ventilation which takes out all the dead foul air, thereby increasing the valuable floor space many square feet.

The height of the front from the floor to the screen keeps the draft from the chickens when on the floor and the overhanging roof in front prevents the wind from blowing in or the rain from getting the floor wet. The green feed trough is filled from the outside and can be used for damp mash feeding if desired and no floor space is lost by it.



Routledge Model Poultry House

The ventilation at the top of the house gives a sure circulation of air without curtains to bother with and the straw loft overhead helps to eliminate dampness of floors and litter and keeps the house cool in summer and warmer in winter. (This can be used or not, just as you like.)

If there is anything not fully understood when you see our plans, write for information.

BLUE PRINTS WITH DETAIL DRAWINGS OF FEEDERS, WATER TROUGHS, ETC., also Bill of Lumber needed, all figured out ready for anyone to build. **PRICE \$2.50.**

There will be specific instructions enclosed on every plan so you will make no mistakes in building.

Let us help you with your poultry problems—start you right. We want you to succeed.

CONKEY'S GUARANTEED POULTRY REMEDIES

READ THIS.—We handle 2 to 3 carloads a year of these celebrated remedies which have built their reputation upon the scientific basis of one remedy for each disease.

A "Cure All" is not made by the Conkey Company. Each remedy is intended to serve one special purpose and serve it well. These goods are absolutely guaranteed, and we offer them to you on this basis. If they fail to satisfy you in any particular, your money will be refunded to you cheerfully. Conkey's Descriptive Book free on request.



Have a Conkey Corner In Your Poultry House

There is nothing like being ready with a good Remedy when disease develops in your flock,

Conkey's Remedies and Tonics

are good, and if you have them at your elbow you can laugh at disease. We guarantee Conkey Goods to satisfy you or we will refund your money. Ask for Conkey's Poultry Book.

POSTAGE.—The following can be mailed safely but ADD 5c EACH FOR POSTAGE and safe packing on the 35c packages and 10c extra on the 70c to 1.40.

Roup Remedy (powder)	35c, 70c and \$1.40
Roup Pills, Special	35c, 70c and \$1.40
Canker Special Remedy	70c
Bronchitis Remedy	70c
Blackhead Remedy	70c
Cholera Remedy	35c and 70c
Gape Remedy	35c and 70c
Lice Fix (Salve Form)	35c and 70c
Limber Neck Remedy	70c
Scaly Leg Remedy	35c
Rheumatic Remedy	70c
Poultry Laxative	35c
Poultry Conditioner (General Tonic)	40c & 80c
Poultry Worm Remedy	35c and 70c
Poultry Flea Salve	35c
Sulphur Candles	20c
White Diarrhoea Remedy.—Save your baby chicks by putting it in their drinking water.	Price 35c and 70c

For CONKEY'S BUTTERMILK STARTING FOOD for baby chicks and MASH for hens, see page 145.

Conkey's Guaranteed Stock Remedies

CONKEY'S 224-PAGE STOCK BOOK FREE.—It's full of the most practical information relative to the raising and keeping of livestock. Housing and feeding problems, diseases—how to recognize them and how to treat them—are all explained. Every dairyman, every stockman, every farmer, should have this book. Get your copy. Free if you call at our store, or send 5c in stamps to cover postage.

Stock Tonic.—Tones up their system, gives health and strength; money well spent. For horses, cows, sheep and hogs. Prices (not prepaid): 1/2 lbs., 40c; 3 lbs., 80c; 7 lbs., \$1.60; 12-lb. pails, \$2.55, and 25-lb. pails, \$4.75. Mailing weights given, add postage.

Worm Remedy.—Guaranteed. 60c postpaid.

Colic Remedy.—Just a few drops on the tongue; effective. 70c; postpaid 80c.

Healing Powder.—For gall sores, cuts or wounds; excellent. 35c or 40c postpaid.

Gall Salve, 35c; postage 10c extra.

CONKEY'S NOXICIDE.—Absolutely unequalled as a non-poisonous deodorant and germ destroyer. Every pet stock fancier needs this. Dilute in water 1 to 20 or 1 to 50 according to directions and use as a spray or wash. Kills germs and prevents diseases. Kills fleas on dogs and lice on poultry or pet stock. Can also be used for cholera, roup, cankers, pip, flue, etc. Good for human or stock. Once used, always wanted. Prices: Pints, 60c; Quarts, 90c; 1/2 Gal., \$1.50; 1 Gal., \$2.50.

NOTE.—We can send pint cans of Conkey's liquids by parcel post if you send extra for postage and 10c extra for safe boxing; total 20c extra per pint can.

CONKEY'S HEAD LICE OINTMENT.—Save your little chicks from the ravages of the deadly head lice. Absolutely harmless to the little chicks. Put up in tubes. Easy to apply. Price 15c and 35c; postage 5c extra.

CONKEY'S LICE POWDER.—It is positive death to lice, ticks, etc. Equally effective for lice on setting hens and young chicks. Gets them all. Cleans up the coop. Absolutely harmless to even the smallest chick. Easy to apply and does the business or your money back. Get a package today. Prices (not prepaid): 7-oz. pkg., 20c; 1/4-lb. pkg., 40c; 3/2-lb., 80c; 14-lb. pail, \$2.10; 30-lb. pail, \$4.00. Note.—Weights given include packing; if wanted by parcel post add postage.

CONKEY'S LICE LIQUID.—A powerful liquid that will destroy the thousands of red mites that live in the cracks and crevices of the house and nests in the day and swarm the fowls' bodies at night. You can't reach them with a powder. Paint or spray the roosts, nests and walls. Prices: 1-qt. can, 75c; 2 qts., \$1.25; 1 gal., \$2.00; 5 gal., \$8.00.

CONKEY'S POULTRY TONIC.—It insures the maximum egg production both summer and winter. Guaranteed to give results or money back. Price (not postpaid): 2 lbs., 40c; 4 lbs., 80c; 14-lb. pail, \$2.10; 30-lb. pail, \$4.00. NOTE.—Add postage if wanted by mail. Weights given are wrapped.

Pain Lotion.—For swellings, etc. (P. P. 2 lbs.) 70c.

Bag Ointment, 35c and 70c; postage 10c.

Dip and Disinfectant.—Best sheep and hog dip made. Pints, 60c; quart, 90c; 1/2 gal., \$1.50; gal., \$2.50; 5 gals., \$10.50.

FLY KNOCKER.—Best fly spray made to keep flies off of horses or cows. Your money back if not satisfied. Qt., 90c; 2 qts., \$1.50; gal., \$2.50; 5 gals., \$10.50.

COW SPECIAL.—Every dairyman should keep this on hand; fully guaranteed. Prices: 80c can postpaid 90c; large size, \$1.60, (3 lbs. wrapped); add postage.

LIQUIDS BY PARCEL POST.—We can send by parcel post pint and quart cans of Lice Liquid, Noxicide, Sheep Dip and Fly Knocker, but it must be packed safely. We ask 10c extra for pints, 20c extra on quarts in addition to the postage to cover boxing cost. PLEASE RE-MEMBER.

SONG AND CAGE BIRDS

We are the largest importers and dealers in Birds and Gold Fish in the Northwest. This department of our business has grown rapidly and we now carry large and complete stocks of cages, supplies and foods and all birds in their season. Special large cage catalog on request.

Imported and Domestic Canaries

Their cheery song is like sunshine to the soul; their bright plumage, active ways and cheerful dispositions make them great favorites. For your convenience we have inclosed with glass two "Bird Parlors" on our first floor. You are welcome any time. Come in and see our birds and hear them sing.

ST. ANDREASBERG. World-renowned and the sweetest singers on earth. These birds have been given a musical training; their song is sweet and soft with many rare and pleasing notes, thrills, rolls, etc. Imported, Males, \$15.00; Females, \$2.50. Domestic, Males \$10.00.

HARTZ MOUNTAIN ROLLERS. Beautiful and incessant singers, always bright, active and cheerful. Some singers in this class are almost equal to the above, especially where they have had special training. These are our most popular sellers. Imported, Males, \$7.50 and \$10.00; Females, \$1.50.

HARTZ MOUNTAIN SINGERS. The well-known and popular American-bred canary. Males, \$5.00; Selected Singers, \$7.50; Females, \$1.00; Selected Females, \$1.70; Young Males, August and September only, not yet in song (no exchange), \$3.50 each.



We Guarantee Our Singers and Will Exchange if Not Satisfactory

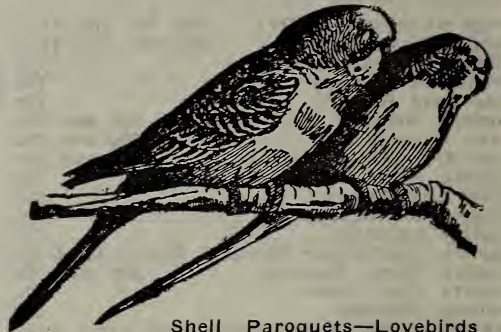
OTHER FAVORITE CAGE BIRDS—We do not always have all the following birds on hand, but can get them quickly on orders. For further information, write.

FINCHES—Strawberry, black headed Nun, Society, European gold, all \$5.00 pair; chestnut, Tricolor-Nun, Diamond, \$8.00 pair; Zebra, musk and black throat, \$12.50 pair; Gould Fincher \$15.00 pair.

JAVA RICE BIRDS, pure white, \$5.00 each.

JAPANESE ROBBINS, Each \$5.00; pr. \$8.50

AUSTRALIAN SHELL PAROQUETS — Often called Lovebirds, look like a miniature parrot, a little larger than a canary; plumage green, very intelligent and beautiful. Each, \$8.00; pair, \$15.00.



Shell Paroquets—Lovebirds

Bend, Ore., March 23, 1920.

Routledge Seed & Floral Co.

Gentlemen: The last Bird I received from you is getting along nicely. Seems to be all right in every way. He sings lovely. I wish to thank you very, very much for your kindness, and fair dealings, also for the information.

Sincerely,
MRS. E. H. EMMERSON.

Skamokawa, Wash., Feb. 15, 1920.

Routledge Seed & Floral Co.

Gentlemen: I received the Bird all right. It was not in the house an hour before it began to sing. It was in fine condition. Thanking you for the fine singer you sent. He is an excellent Bird and am well pleased.

Yours truly,
MISS BELLE WIEST.

Canary Bird Specials

These Five Articles Have Merit, We Sell Gross After Gross

BIRD MANNA—A combination of seeds, herbs and roots that nature intended birds should have. Food and medicine combined. A tonic and conditioner. Comes in half-round cakes. Fastens on the cage wires. Per cake, 15c; postpaid 20c; 2 for 35c.

ROBINSON'S BIRD PASTE—Feed it same as Manna, which it resembles very much. Per tin 15c; postpaid 20c.

BIRD-O-LINE—A preparation very similar to "Manna," except that it is granulated and dry and is fed in the seed cups, a little at a time. A larger package. Per box, 25c; postpaid 30c; 2 for 55c.

CANARY HIGH BALLS—Another article of above merits. Highly praised. Comes in ball form and hangs in the cage. "Mr. Bird" eats it as he needs it. Each, 15c; postpaid 20c; 2 for 35c.

SPRATT'S COD LIVER OIL NESTLING FOOD—A food for young birds. A substitute for boiled eggs. An excellent food for old birds in the moulting season. Per pkg., 25c; postpaid 30c; 2 for 55c.



LIVING PRESENTS—Did you ever stop and consider what a desirable Christmas or birthday present a beautiful CANARY makes. They are so different, interesting and desirable, SO CHEERFUL AND LOVEABLE.

ROUTLEDGE SEED & FLORAL CO.'S BIRD FOODS

We are making a specialty of Bird Foods and Remedies and carry in stock the largest and only complete line in the Northwest. Our rapidly increasing trade shows that the public appreciates the opportunity to get H. Q. "HIGHEST QUALITY" foods and remedies of "Merit" for their pets.

ROUTLEDGE SEED & FLORAL CO.'S

H. Q. Imported Bird Seed

Our own special mixture for American, Hartz Mountain and St. Andreasberg Canaries; especially prepared for the singers. Contains no hemp, but the correct proportions of highest quality re-cleaned Canary, Sweet Rape, small Golden Millet and a few other seeds to give health and "pep" to the singers.

It is no wonder that thousands of canaries die annually from the effects of common Bird Seeds bought from grocery and drug stores, which is so often old, musty, dirty, inferior seeds, and incorrectly mixed.

Try a package of our H. Q. and note the difference and also the saving, even though it is a little higher in price.

"H. Q." sold only in sealed 1-lb. cartons (see illustration of our 1-lb. carton). Take no other. Price 35c lb.

Add postage if wanted by mail.

H. Q. Hemp Seed.—Hemp is the large, round dark-grey seeds found in all cheap mixtures. It is very heating and fattening and should be fed sparingly and not to singers at all. (10 lbs. \$1.25.) Price 20c lb.

H. Q. Canary.—There is a big difference in the stock and quality of canary. Buy our re-cleaned Sicily seed. Quantity price on request. Lb. 30c; 10 lbs. @ 25c

H. Q. Millet.—Small golden soft shell, fresh and re-cleaned. Lb., 20c; 10 lbs. @ 15c.

H. Q. Imported Sweet Rape.—Easily detected by the sweet taste. Lb., 25c; 10 lbs. @ 18c.

Note.—Beware of wild mustard, kale and turnip seeds sold as bird rape @ 10c or 15c lb.

Lettuce Seed.—For birds. 35c lb.

Silver Bird Sand.—White and clean; put up in 2-lb. cartons, 15c; in bulk 5 lbs., 30c; 10 lbs., 50c.

NOTE.—Add postage to all foods above when ordering by mail.

Parrot Foods, Tonic, Etc.

H. Q. Mixed Parrot Seeds.—This is our own mixture of clean, well cured sunflower, hemp, pumpkin and corn, properly mixed. Your "Polly" will like this. 25c lb.; 5 lbs. for \$1.00; postage extra.

H. Q. Sunflower.—We offer only large plump, full meated seed properly cured and of the right age for health. Far superior to the average stock sold. 20c lb.; 5 lbs. for 90c; postage extra.

Parrot Corn.—Best quality for parrots. 15c lb.; 4 lbs. for 60c; postage extra.

M. G. Parrot Spray.—Will cure Parrots of the habit of biting off their feathers. Per bottle 50c; postpaid 65c.

M. G. Mixed Parrot Seed.—Properly mixed for good health and plumage. Full and valuable directions on the care of Parrots on each box. Per carton 30c; postpaid 35c.

M. G. Prepared Corn, for Parrots.—To be given in addition to the seed. Per carton 20c; postpaid 25c.

NOTE.—Add postage to all prices (not marked prepaid), if wanted by mail.



This is our H. Q. Bird Seed Carton—Highest quality seed obtainable. (Green box, yellow bird.) Take no other.

"H. Q." Bird Gravel.—With "Manna," a new product becoming very popular with bird fanciers. 2-lb. can 20c

Red Bird Gravel.—Preferred by many of our customers. 2-lb. box 20c

Cuttle Bone, high grade, large size. Each 10c, or 2 for 15c, postpaid; with patent fasteners or holders, 10c and 15c, postpaid.

M. G. Parrot Biscuit, for old and young, to keep them in good health and plumage. Per carton 30c; postpaid 35c.

Parrot Tonic.—Unexcelled for young Parrots, cures catarrh, bowel trouble, etc. (MG) Per bottle 35c; postpaid 40c.

M. G. "Health Food" for Parrots, for health and fine feathers. Per carton 30c; postpaid 35c.

Parrot Diarrhoea Cure (K).—A cure for diarrhoea or bloody flux. 40c; postpaid 45c.

Reliable Parrot Remedy (K).—For colds, moulting and diarrhoea, etc. 50c; postpaid 60c.

Parrot Tablets.—Conditioner, prevents feather picking. 30c; postpaid 40c.

Plumage Restorer (K).—For Parrots, Paroquets and birds that pick and bite their feathers. 30c; postpaid 35c.

Miscellaneous Bird Foods and Remedies

We have used in our own Bird Stock Department the following remedies, all of which we can recommend. We buy them in one to five-gross lots and aim to have complete stock at all times.

To conserve space, we will designate the different stocks as follows: (G) for Max Geisler, (K) for Kaempfers, (P) for Philadelphia Bird Co.'s, (S) for Spratt's.

NOTE—The following prices are all postpaid, 5c less per package if called for. Prices subject to market changes.



SONG AND MOULTING FOODS

Always feed some of the following foods during moulting season and to restore the songs. Feed a "general tonic" when moult first starts, followed by a **Song Restorer**, which should bring your bird back into full song quickly.

	Price, Postpaid
Song Restorer (K), large size	55c
Excelsior Song Restorer (K)	30c
Drahota's Song Restorer (P)	30c
Song Restorer (S)	30c
Song and Moulting Foods (G)	30c

The following are liquids:

Treatment A.—(Song Restorer) (G)	35c
Treatment B.—(Digestive Trouble) (G)	35c
For diarrhoea and bowel disorder	35c
Treatment C.—(Cold Cure) (G)	35c
Treatment D.—(General Tonic) (G). use once a week in drinking water	35c

"Bird Specials," page 150.

Bird Biscuit (G) for change of diet.. Plain 25c; Medicated 30c.

Vegetable Extract (G), general tonic 40c
Moulting Pepper (P), moulting season 40c

MOCKING BIRD FOODS.—An excellent and highly nutritious prepared food, made for Mocking Birds, Robins, Thrushes and all soft-billed birds. **DEFIANCE** (S), large cans, 75c; **RUHE'S**, 1-lb. cans, 70c; **GEISLER'S**, ¼-lb., 50c.

MITE AND LICE POWDERS

Watch out for lice on the birds and the little red mites that hide in the crevices of the cage or walk during the day and live on the birds at night. Your bird cannot be contented and happy with these pests.

Bird Lice Destroyer (H. Q.)—Put up in powder guns. 35c; postpaid 40c.

H. Q. Mite Powder.—15c postpaid.

Bird Mite Powder (P), large box, 40c.

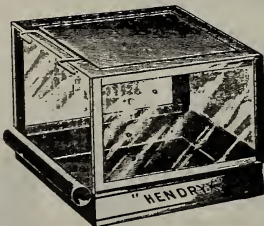
H. Q. Bird Lice Powder.—Very effective, 15c postpaid.

Note.—We have small insect powder blowers at 25c each postpaid. You need one to apply powder effectively. (See page.)

H. Q. Bird Cage Wash.—A liquid to be diluted with water for disinfecting the cage and killing the mites. Full instructions on the label. 35c, postpaid 40c.

GENERAL REMEDIES

	Price, Postpaid
Asthma Tablets (K)	30c
Canaradyne (S).—Use in drinking water for asthma or bronchitis.	30c
Diarrhoea Tablets (K)	30c
Constipation Tablets (K)	30c
Bird Bitters. (P), general tonic	40c
Nestling Food (P), for young birds	30c
Plumage Restorer (K) a spray	30c
Foot Ointment (K) for sore feet	30c
Bird Liniment (K) for scaly legs	30c
Color Food, red or orange, gives feathers better color. Fine for young birds or after moulting. (S) 30c; (P) 40c.	
Nesting Hair (P), for nests	15c



Glass Bath House

Glass Bird Bath House

Ideal in every way. Finished in white enamel and gold trimmed. The removable glass sides can be easily cleaned. To prepare the bath, fill the bottom with warm water, open the cage door and hook bath house before it. "His Majesty" can go in and take his bath when he pleases and you lose no time standing around awaiting his pleasure. With his closed bath room the bird cannot scatter the water. (For bathing dishes, see page 155.)

Price \$1.25; postpaid \$1.40

Valuable and Up-to-Date Books on Birds

BIRDS	
Canary Breeding and Training	40c
British Bird Culture, (Spratt's)	15c
Canary Birds.—A complete guide for their breeding, rearing and treatment; 100 pages. Postpaid	75c

Parrots and Talking Birds	40c
Feathered Pets.—140 pages on breeding, care and food for Canaries. Finches, Parrots and all cage birds. Postpaid	40c
American Bird Fancier. — New Breeding and care of song and domestic birds. 120 pages	75c

CANARY BREEDING STOCK.—We make a specialty of canaries and can supply you strong, healthy male or female birds that we will guarantee to mate.

PARROTS

We handle more young parrots than all other Northwestern dealers combined. The young parrots arrive during July and August, but we aim to have stock on hand at all times. Price of trained talkers on request. We offer hand raised, not the wild, trapped, unmanageable birds.

PANAMA PARROT.—The most popular parrot with our trade. Of quite large size, gentle disposition, easily taught and become great favorites. Deep green plumage. They often show a yellow spot on the back of the head. Young 6 to 8 months old, each \$25.00 and \$30.00; extra select, \$35.00; Old Parrots, Trained Talkers, \$50.00 and up.

B B OR DWARF PARROTS.—These cute little parrots make great pets. They are active, bright and wideawake. They are not much on the talk, but can be trained. Their dark green plumage is always smooth and pretty. Their gentle disposition and winning ways make them great favorites. Each, \$7.50 and \$10.00.

CUBAN PARROT.—Medium size, green plumage, red tips on wings, light face, gentle, fine pets, good talkers. Note below.

MEXICAN RED-HEADED PARROTS.—Medium size, trim and active, make fair talkers, gentle. Green plumage, bright red on head, blue in wing and tail.

NOTE.—Cubans and Mexican Parrots are cheaper in price than Panamas but not as good talkers. They were not to be had last year, but may be obtainable this coming fall. Write for prices.



Panama Parrot

Parrot Cages

These are extra strong, large and roomy, well finished and of the latest and best designs of Parrot Cages on the market. Our Special Cage Catalog will show larger cuts of the three styles, extra cups, etc.

MOULDING BASE SQUARE CAGES

Made of extra heavy tinned wire, new style moulding base, with removable cleaning drawer, and also has wire grating to keep bird from getting down on dirt. Tinned iron, self-locking feed cups.

No.	Size	Height	Price
101	15 $\frac{1}{2}$ x14 in.	27 in.	\$14.75
102	17 $\frac{1}{2}$ x15 $\frac{1}{8}$ in.	28 in.	16.95
103	21 $\frac{1}{4}$ x17 $\frac{1}{2}$ in.	31 in.	22.45

ROUND PARROT CAGES

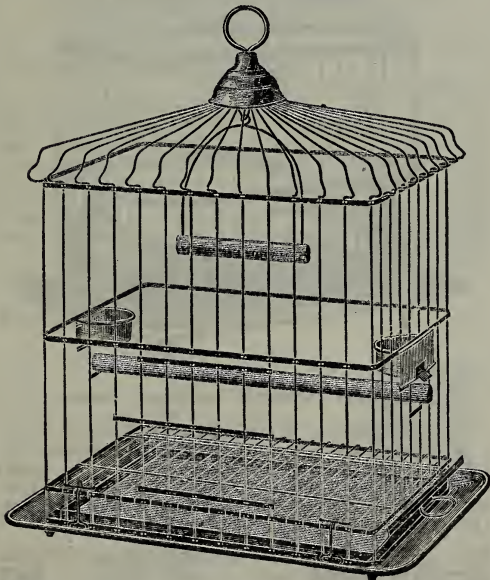
These are very popular on account of the low prices. Our advice is to get the largest cage you can afford, as it gives "Polly" more room for exercise and less danger of spoiling the tail feathers. Heavy tinned wire, strong and well made; zinc bases, self-locking feed cups.

No.	Diameter	Height	Price
No. 50	13 in.	19 $\frac{3}{4}$ in.	\$ 5.65
No. 55	14 in.	21 in.	6.75
No. 60	15 $\frac{1}{2}$ in.	23 in.	8.85
No. 65	17 $\frac{1}{2}$ in.	28 in.	12.30

PARROT STANDS

After your parrot has become tame and well trained, a parrot stand is very desirable. It gives more freedom and the bird greatly enjoys it, and can keep his plumage in much better condition. Keep Polly chained when you leave.

No. 1.—Finished in black enamel. Complete with feed cups, tray and chain. Good heavy base, so it will not tip over. Tray adjustable to any height. Price \$16.40. Stand Covers \$11.25.



Moulding Base Nos. 101 to 103

FANCY SQUARE CAGES

Made of extra heavy tinned wire, zinc base, strong self-locking feed cups. They also have a slide cleaning pan on the bottom and wire grating to keep bird from getting down on the dirt.

No.	Size	Height	Price
115	16 $\frac{3}{8}$ x11 $\frac{1}{2}$ in.	23 in.	\$11.90
120	17 $\frac{1}{2}$ x14 in.	25 in.	14.50

PARROT FOODS.—You must remember that your parrot does not get all the foods nature intended it should have, therefore give "Polly" a treat by feeding our Health Food, Parrot Biscuits, Etc. See page 151.

CANARY BIRD CAGES

We believe we carry the most complete line of plain and fancy cages on this Coast. Limited space in this catalog will not permit us to illustrate all, but if further interested send for our **SPECIAL CAGE CATALOG**. We offer herewith some of our most popular and best sellers. Prices subject to change in metals.

LA FAVORITE BRASS CAGES

This is one of the new, late models; very popular and one of our best sellers. The full, graceful design at the top adds greatly to its general appearance. Handsome, bright finish, extra well made. (Wgt. packed 7 lbs.) See illustration.

No.	Size, Inches	With Guard	Without Guard
7004	9 $\frac{1}{8}$ x6 $\frac{1}{2}$ x12 $\frac{3}{4}$	\$6.40	\$3.95
7006	10 $\frac{1}{8}$ x7 $\frac{1}{8}$ x13 $\frac{1}{4}$	7.45	4.85
7008	10 $\frac{3}{4}$ x7 $\frac{3}{4}$ x13 $\frac{1}{2}$	8.70	5.85
7010	13 x8 $\frac{1}{2}$ x14 $\frac{3}{4}$	9.70	6.95

NIAGARA BRIGHT STEEL CAGES

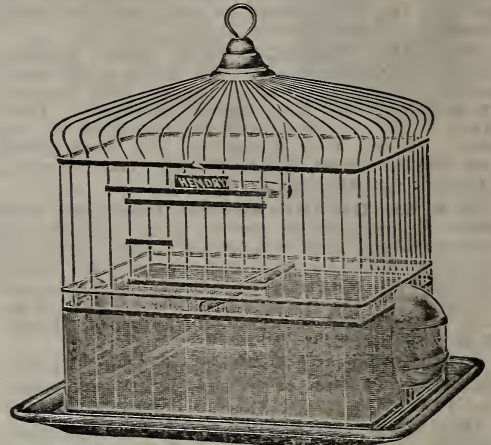
These new metal cages are finished in bright steel and look real nice. Non-corrosive, neat, bright, well made cages, same style as La Favorite. See illustrations. Mighty good value for the price. (Weight packed 8 lbs.)

No.	Size, Inches	With Guard	Without Guard
7104	9 $\frac{1}{8}$ x6 $\frac{1}{2}$ x12 $\frac{3}{4}$	\$3.90	\$3.15
7106	10 $\frac{1}{8}$ x7 $\frac{1}{8}$ x13 $\frac{1}{4}$	4.15	3.25
7108	10 $\frac{3}{4}$ x7 $\frac{3}{4}$ x13 $\frac{1}{2}$	4.40	3.45
7110	13 x8 $\frac{1}{2}$ x14 $\frac{3}{4}$	4.95	3.80

ECONOMY ENAMELED CAGES

These cages are extra good value for the price. Well made and properly finished so that the enamel will not chip off. Color, pure white. For a low-priced cage, it would be impossible to find better value anywhere. A person often has use for a second cage for young birds or perhaps an extra one, and these are just the thing. See illustration. (Weight packed 7 to 10 lbs.)

No. and Price	Size Inches	No. and Price	Without Guard
265 .. \$4.00	9 $\frac{3}{4}$ x6 $\frac{3}{4}$ x15 $\frac{1}{2}$	165 ..	\$2.35
266 .. 4.90	10 $\frac{1}{2}$ x7 x16	166 ..	3.15
267 .. 5.40	11 $\frac{1}{2}$ x7 $\frac{1}{2}$ x16 $\frac{3}{4}$	167 ..	3.45
268 .. 6.15	12 $\frac{1}{4}$ x8 $\frac{1}{4}$ x17 $\frac{1}{2}$	168 ..	3.80
269 .. 6.75	13 x8 $\frac{3}{4}$ x18	169 ..	4.25



La Favorite, with Seed Guards



Economy Enamel, without Guard

VICTORIA ENAMELED CAGES

A new high-class white enameled cage of latest pattern and best quality. An ideal medium-priced cage. Neat in appearance, large and roomy. For a stand or a bracket. (Weight packed 8 to 10 lbs.)

No.	Size Inches	Prices
674—With guard	.....10 x16	\$8.10
675—With guard	.....11 x16 $\frac{1}{2}$	8.65
676—With guard	.....11 $\frac{1}{2}$ x18	9.35

IMPERIAL BRASS CAGES

Well made, rigid and extra strong. Solid spun brass base, fitted with compact brass wire guards, making it a perfect, unusually clean and pretty cage, for stand or hanging bracket. (Weight packed 8 to 10 lbs.)

No.	Size Inches	Prices
274—With guard	.....10 x16	\$9.00
275—With guard	.....11 x16 $\frac{1}{2}$	9.55
276—With guard	.....11 $\frac{1}{2}$ x18	10.55



Imperial and Victoria Style

Note.—(P. P. wgt. 8 lbs.) means parcel post weight packed ready to mail, but all cages will be sent by express, which is safest, unless ordered by parcel post and **EXTRA MONEY SENT FOR POSTAGE** in addition to 50c to cover cost of box and packing.

Cages and Supplies—Continued

EXTRAS

Bird Cups.—Open or half, egg shape, plain glass or opal. Each 20c; postpaid 25c. Breeding cage cups 20c each; 25c postpaid.
Bathing Dishes.—Opal or plain glass, 25c; postpaid 30c.
Bird Nests.—Wire 20c; willow 25c.
Nesting Hair.—15c pkg.; 2 for 25c postpaid.
Cage Suspension Springs.—Single, lght, 25c; heavy, 35c; Double, 50c; Single with adjustable chain, 50c.

OUR CATALOG of Cages and Supplies illustrates these supplies.

BREEDING CAGES

All metal, enameled white, all complete.
 No. 4 Single, for 1 pair 17x9x14 in..\$ 5.95
 No. 1 Double for 2 pairs 25x12x16 in.. 10.00
 No. 2 Double 22x11x15 in.. 9.00
 No. 3 Double 19x10x14 in.. 8.00
 No. 113 Double 27x10x15 in.. 9.45

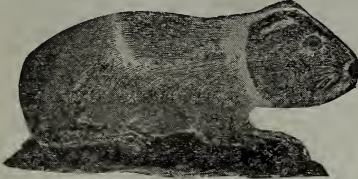
ARM WALL BRACKETS

Dandy, heavy nickle-plated wire. Swinging, 8 in. 40c; 10 in. 50c; 12 in. 60c. Brass swinging style, 8 in. 50c; 10 in. 55c; 12 in. 65c.

Acme.—Cast iron arm, fancy design, brass plated; 12 in. \$1.50.

Cavies — Guinea Pigs

Bright, active and harmless pets. They are in much demand and money can be made raising them. They come in combination colors of brown, white, yellow, black and tan, generally spotted and prettily marked. Solid colors are not always obtainable and are higher in price.



English Cavy (Guinea Pig)

ENGLISH.—Smooth, short hair; hardy and healthy. Young, Females \$1.00; Males 75c and \$1.00; Old, Females \$1.50. Males \$1.00 and \$1.25. A select breeding pair, \$2.50.

BOOKS.—The Raising and Care of Guinea Pigs (Smith), 50c.

Cavies, New Book, nicely illustrated; complete, (Gardner), 75c.

Rabbit Foods, Remedies, Supplies

Caldwell's Rabbit Foods and Remedies

All tried and tested, of real merit. Full directions on each package.

	Prices	Postpaid
Slobber Remedy.—Sure cure.	35c,	50c, 75c
Ear Remedy.—Sore ears.		50c, 75c
Sore Hock Remedy.		50c, 75c
Vent Remedy.—Very valuable.	35c,	50c, 75c
Diarrhoea Remedy.		75c
Snuffle Remedy.—Colds, etc.		\$1.00
Rabbit Tonic.—Regulator.	75c,	1.00
Buck Tonic.—Keeps the males in vigorous, healthy condition.	\$1.00 pkgs.,	postpaid \$1.10.



Rabbit Salt Blocks

These are pure salt, contain no medical preparations. Flat, square cakes with a nail hole in center. Nail to the wall or wire to hutch door. Rabbits should have salt before them and this is the ideal form. Prices, 10c each, 75c doz., postpaid, 85c. Gross price on request.

RABBIT BACTERIA.—Prevents and cures Snuffles. Ask for pamphlet, "The Truth About Snuffles."

Routledge Rabbit Feed

This is a mixture of grains, rolled and ground, that should be fed in addition to alfalfa or clover hay and green vegetables and roots. Price, 5 lbs. 30c; 10 lbs., 50c; 50 lbs. \$2.35.

Rabbit-Cavie Feeders

Use this sanitary feeder. Put hay, vegetables or green feed in the top and grain in the bottom. 12 in. high, 9 in. wide. (P. P. Wgt. 2½ lbs.) Price \$1.00



Note.—This is also an excellent feeder for poultry. See page 141.

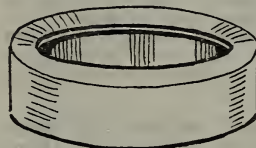
GERMO DISINFECTANT.—Harmless to rabbits but effective. See pages —. Ask for leaflet.

Ideal Feed and Water Dishes

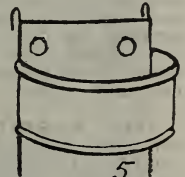
Made especially for rabbits, cavies and small pets. Cannot tip over, and the saving in feed soon pays for them. See illustration.

No. 2.—Earthenware, heavily glazed; the incurving top rim prevents the nosing out of feed. Will not tip over.

Prices: 6-inch, 25c each, \$2.50 doz.; 8-inch, 30c each, doz., \$3.25. If wanted by parcel post, add 8c each or 50c doz. for safe packing and postage at 2 lbs. each.



2



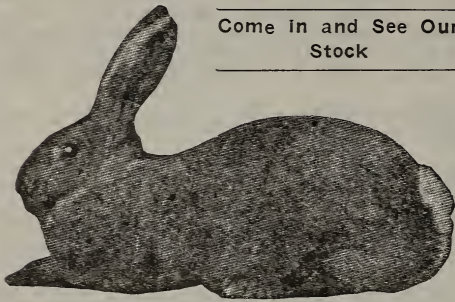
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No. 5.—Heavy galvanized half bowl shape, to hang on cage door or partition. Our new style, cannot drop or be knocked off. Each 30c., doz. \$3.25. Mailing wgt. 1 lb. each. Postage extra.

Don't Overlook Our Up-to-Date Rabbit Books on Next Page

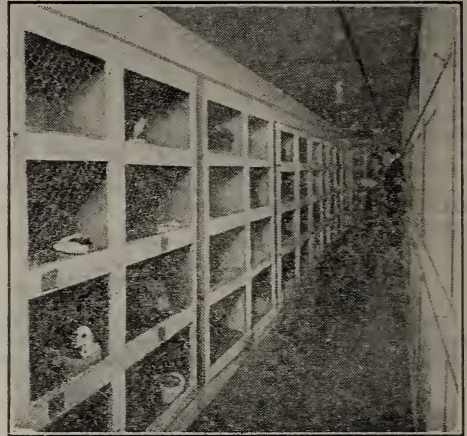
RABBITS — BELGIAN HARES

We keep in stock at our store about 30 pens of Rabbits of different breeds and can bring in on short notice most any stock wanted in this line.



Flemish Giant Buck

Come in and See Our Stock



Flash Light Photo Showing Rabbit Hutches in Our Pet Stock Department in Our Store

	Young 2 to 3 Mos.		Breeders 6 Mos. or Over		Bred Does 6 Mos. or Over to Order
	Bucks	Does	Bucks	Does	
WHITE ENGLISH	\$.75	\$1.00	\$ 3.00	\$ 4.00	\$ 5.00 & up
RUFUS RED BELGIANS	Utility 1.50	2.00	5.00	6.50	7.50 & up
	Fancy 2.50	3.50	10.00	12.50	15.00 & up
NEW ZEALAND REDS	Utility 1.50	2.00	5.00	6.50	7.50 & up
	Fancy 2.50	5.00	10.00	12.50	15.00 & up
FLEMISH GIANTS	Utility 2.50	3.00	7.50	10.00	12.50 & up
	Fancy 3.50	5.00	10.00	12.50	15.00 & up
HIMALAYANS	Fancy 3.00	4.00	7.50	10.00	12.50 & up

English Lop-Ear Stock Limited; Write. Weights given are mature stock.

Special Note.—The cheapest and quickest results can be obtained by the beginner by buying one or more Bred Does and an extra Buck, not related. Utility Buck service, 75c to \$1.50; Pedigreed, \$2.00 to \$5.00.

HIMALAYANS.—Fur bearing. Very attractive; body generally all white, with black nose, ears, feet and tail. The fur is heavy, fine and of recognized value. Weight, 6 to 8 lbs.

Weights given are mature stock.

FLEMISH GIANT—BELGIAN.—Very popular on account of their large size and quick growth, which makes them valuable for market. Color, light squirrel grey to solid black. Weight 10 to 12½ lbs.

WHITE ENGLISH.—Very popular pets with children as their white coats and pink eyes make them so attractive. Always in demand as Easter Rabbits.

RUFUS RED BELGIANS.—Improved strain of the common Belgian Hare. Color, greyish red; coat fine and soft; weight, 8 to 9 lbs.

NEW ZEALAND REDS.—A hardy, sturdy strain very popular and much in demand; meat fine in quality and flavor. Color, red. Weight, 8 to 10 lbs.

NEW BOOKS ON RABBITS

GIBSON'S NEW RABBIT BOOK.—The latest and most complete information ever published about rabbits. Gibson is an international judge and secretary of the National Pet Stock Association. He has had twenty years' experience with all varieties. Over forty illustrations and full information on housing and hutches; proper handling and selection; breeding, feeding, selling, shipping and exhibition. This book covers all breeds and gives tested recipes for cooking and serving as food; fur proposition, etc. 1920 5th edition, 200 pages, 5x7; well printed on white book paper. Price, paper cover, \$1.10, postpaid. Cloth cover, \$1.60.

THE RABBIT COOK BOOK.—The most complete and up-to-date book of the kind printed. Containing over 115 recipes of the very latest, on preparing and serving rabbits. Without one of these books you cannot realize the value of this most nutritious meat. Size 5x7; paper cover; 64 pages. Price 60c; postpaid 65c.

Save time, energy and money by reading these practical and up-to-date books. Did you ever stop to think that a few hours' reading now and then will give you valuable information that it has taken others years of labor and experience to obtain?

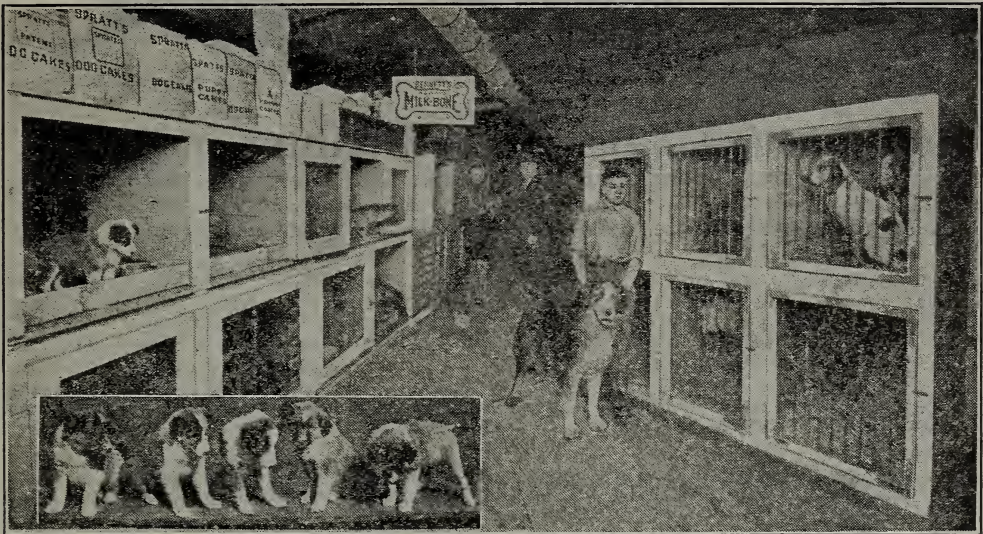
WESTERN RABBIT BOOK.—Complete text book on the rabbit industry by C. A. Richey, Los Angeles, Cal. Well printed and nicely illustrated. Covers about the same subjects as the above book but is not as complete in all departments. Very valuable for the beginner. Size 6x9 inches; 70 pages; paper cover. Price, 60c; postpaid, 65c.

THE BELGIAN HARE GUIDE.—Valuable instructive book, devoted to the care, feeding, breeding, housing and diseases of the Belgian Hare, complete and up-to-date. One chapter on Flemish Giants. Good value for the price. Size 6x9; 48 pages; illustrated; paper cover. Price, 35c postpaid.

RABBIT CULTURE AND STANDARD.—Recently revised by C. R. Deardorff. This is a book full of valuable information covering rabbits of all kinds, their breeding, rearing, diseases, remedies, housing, etc. This book gives standard weights and measurements, color and all points of all modern breeds. 132 pages. Price 60c; postpaid 65c.

PUPPIES AND DOGS

Buy your child a puppy and let them grow up together. Aside from the protection and companionship, educational experts advise that all children are better by having pets.



The above cut reproduced from flash light photographs made in our Pet Stock Department showing part of our Dog and Puppy Kennels. These are cleaned and disinfected daily and our stock is all inspected weekly by a Veterinarian. Visitors welcome any time.

Most buyers prefer a pup so it can be raised and trained to suit, but often someone wants a full-grown dog; we sell both. Our largest demand is for Fox or Irish Terriers, Toy, Boston and English Bulls, Airedales, Spitz, Cocker Spaniels and Scotch Collies, but we can also supply Setters, Pointers and most other breeds.

Prices.—If out-of-town customers will write and tell us what they want—breed, color and sex and what stock, fancy, pedigree or just good, fairly pure strain, we are sure we can please you and give you extra good value. Prices on the different breeds and stock range from as low as \$7.50 to \$15.00 and up to \$50.00 to \$75.00.

BOOKS ON DOGS

Amateur Dog Book.—(Bruette)—Training, care and treatment, 150 pages..	.60
Amateur Trainer.—(Haberbein)—	1.25
Airedale Terrier Standard .....	.60
Airedale Terrier.—(Buckley)—	1.60
Boston Terrier	2.25
Common Sense Dog Doctor.—Spratt's—	.60
Dogs of All Nations.—130 pages; fully illustrated (Mason) .....	.75
Perfect Fox Terrier .....	.85
Bird Dogs, The Training (Whitford) ..	1.60
The Collie (Dalziel)	1.00

DOG COLLARS, CHAINS, ETC.

DOG SUPPLIES.—Limited catalog space will not permit us to illustrate and describe our stock of Dog Collars, each 50c to \$4.00; Harness, \$1.00 to \$5.00; Chains and Leads, 40c to \$1.50; Muzzles, 60c to \$1.00; Sweaters, \$3.50 to \$5.00; Brushes, \$1.50 up; Combs, \$1.00 up. Call or write for stock wanted. Dog Soap and Foods on pages 158, 159.

PEDIGREE BLANKS

For Dogs, Cats and Rabbits

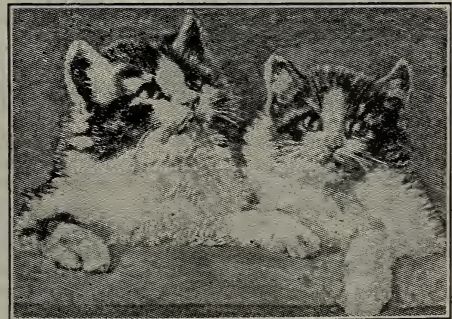
We offer breeders, what we believe to be the prettiest and most up-to-date, properly constructed pedigree blanks. These are printed in two colors and beautifully illustrated.

Prices.—State kind wanted, 10c each; 6 for 50c; 12 for 85c.

PERSIAN CATS OR KITTENS

These long fluffy silky-haired pets are great favorites with the ladies, and with their bright intelligence, affectionate dispositions, cleanliness and beautiful appearance it is not to be wondered at. Most of the stock we offer is from pedigreed stock and eligible to registration.

RANGE OF PRICES.—Young Kittens: Males, \$10 to \$20; Females, \$7.50 to \$15; Old, 6 months or over, prices on request.



NOTE.—We would be very glad to hear from any reliable breeders of Dogs, when they have stock to sell. Give us full information in the first letter, BREED, WHAT KIND OF STOCK, AGE, SEX and NET PRICE TO US.



Here You Are — Don't Forget "Kitty" or "Tom"

Most every home has a cat and every cat should have a plaything. Catnip Mice and Catnip Balls are just the thing, make the cats playful, healthy and wide awake—they love the smell of catnip and crave it; a little occasionally to keep in good health is almost necessary.

CATNIP MICE

Made of cloth, same size, shape and color of a real mouse, and stuffed with dried catnip leaves. Kitty will play for hours with this mouse and then should be given a little catnip. Price, postpaid, 20c.

SPECIAL.—1 Catnip Ball, 1 Catnip Mouse and 1 pkg. Catnip, postpaid, for 50c.

CATNIP BALLS

These are hollow wooden 1½-inch red balls, filled with catnip. It's great sport for the cat to roll them around. A wonderful toy for cats. Price, postpaid, 20c.

CATNIP LEAVES

Catnip leaves, properly cured and dried. Always keep a package on hand to treat Kitty with. Price, postpaid, 20c.

SPRATT'S CAT FOOD AND REMEDIES

Spratt's Cat Food.—A complete food for cats. Used at the leading catteries throughout the world and daily becoming more popular among the fancy. Small pkg. (P. P. 1 lb.) 25c; large pkg. (P. P. 2¾ lbs.), price 45c. Add postage.

The above is also prepared with Pasteurized Milk, excellent for kittens and invalid cats, or prepared with Fish to be used as a change of diet, especially during the summer months. Prices same as the regular Cat Food above.

Vermifuge Capsules for Cats. Postpaid 50c
Distemper Tablets for Cats. Postpaid 75c
Tonic and Condition Tablets for Cats. Postpaid 50c.

Malted Kitten Food.—Use tablespoonful to pint of hot water; very valuable and inexpensive. Can, 45c; postpaid 50c.

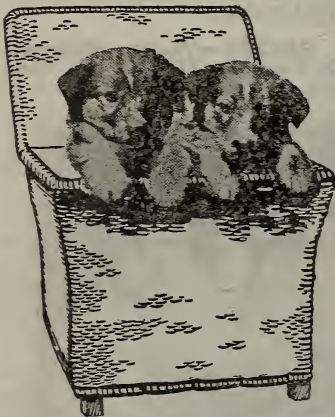
CAT BOOKS.—Cat Culture, Spratt's, 15c; Domestic and Fancy Cats, by Jennings, covers all subjects, 85c postpaid.

CAT PEDIGREE Blanks 10c each; 85c. doz.

NOTE.—Cat owners are feeding Fibo, Pep-sinated Meal, Midget, Puppy and Cod Liver Oil Biscuits with the greatest success.

MALTOID MILK-BONE DOG AND PUPPY FOOD

A FOOD THAT ALL DOGS LOVE. MADE ON A NEW PRINCIPLE.



Remember, we sell Pup-pies of all kinds. Write for prices on the kind you want.

Bone Shaped Dog and Puppy Biscuit

The food of dogs not only must provide a certain amount of nourishment—it must also be pure, wholesome food. It must be not merely "filling" but appetizing as well.

For, as everyone knows, food affects dogs in precisely the same way it affects humans. Food eaten with enjoyment is much more easily digested than food of unattractive flavor.

Maltoid Milk-Bone is made on the same principles of purity and good flavor as human food. Hence it appeals to the dog's senses of smell and taste.

We guarantee that Maltoid Milk-Bone contains only pure, wholesome foodstuffs, including good, clean meat, without sugar, spices or artificial flavoring of any kind.

Maltoid Milk-Bone is made to meet the particular physical needs of dogs; it is made to suit the peculiar digestive organism of dogs. Maltoid Milk-Bone not only provides the necessary energy-producing material, but it also supplies the materials for tissue repair.

If you want a happy, bright-eyed dog, full of life and ginger—whose skin is always healthy and coat always glossy, a dog with bright, clear eyes, sweet breath and regular habits, feed Maltoid Milk-Bone.

PRICES.—Milk-Bone Puppy or Dog Biscuit, sold in cartons only (P. P. wgt. 2½ lbs.) each 45c; doz., \$5.00. Add postage if wanted by mail.

Spratt's Dog, Puppy and Cat Foods, Remedies, Etc.

Known and used the world over. None better. We have hundreds of customers and now buy in carload lots. Prices subject to market changes. Spratt's descriptive Dog Culture Book and Catalog free.

Spratt's Dog Foods

NOTE.—ADD POSTAGE on all sizes if wanted by parcel post and allow a little extra weight of packing.

SPRATT'S DOG CAKES.—A properly balanced meat, grain meal and vegetable compound that will not spoil with age. Known and recommended the world over as a complete and constant food for dogs. Most owners of dogs rely on scraps from the table as "dog feed." This is all right as far as it goes, but to be on the safe side and for vacation trips, etc., always keep a supply of Dog Cakes on hand.

Prices: (Whole) 2-lb. cartons, 45c; 5-lb. bags, 90c; 10-lb. bags, \$1.70; 25-lb. bags, \$4.00; 50-lb. bags, \$7.50; 100-lb. bags, \$14.50.

DOG CAKES (Kibbled).—Nut size.—2½-lb. carton, 45c; 5-lb. bags, 95c; 10-lb. bags, \$1.80; 25-lb. bags, \$4.25; 50-lb. bags, \$8.00; 100-lb. bags, \$15.00.

COD-LIVER OIL BISCUITS are invaluable for old or delicate dogs or those recovering from sickness. Dogs eat them without coaxing.

Prices: 2-lb. cartons, 45c; 5-lb. bags, \$1.00; 10-lb. bags, \$1.90; 25-lb. bags, \$4.50; 50-lb. bags, \$8.50; 100-lb. bags, \$16.00.

FIBO for Puppies or Growing Dogs.—For shy feeders or those recovering from sickness, or as a change of food at any time for all dogs. Small nut size.

Prices: 2-lb. cartons, 50c; 5-lb. bags, \$1.15; 10-lb. bags, \$2.05; 25-lb. bags, \$4.85; 50-lb. bags, \$9.25; 100-lb. bags, \$17.50.

"MIDGET" CHARCOAL BISCUIT.—To correct all bowel troubles, weak digestion, fetid breath, etc. All dogs should have at least once a week, and preferably at regular intervals, a meal of these excellent cakes. 2-lb. cartons, 45c.

BULLDOG AND TERRIER MEAL.—A conditioner. Makes bone and muscle. 2½-lb. cartons, 50c.

Spratt's Puppy Foods

A perfect and whole food for puppies of all breeds. Puppies should be started on these biscuits when about one month old, and they should be continued until such time as their teeth become sound and strong, usually when they are about six months old.

PUPPY CAKES.—2-lb. cartons, 45c; 5-lb. bags, \$1.00; 10-lb. bags, \$1.90; 25-lb. bags, \$4.50; 50-lb. bags, \$8.50; 100-lb. bags, \$16.00. (Packed in boxes ½c lb. extra.)

PLAIN PUPPY MEAL.—The standard weaning food. This Meal should be used before, during and after the weaning period to insure large, vigorous and healthy puppies. Also an invaluable food for dogs of any age out of condition. 2-lb. cartons, 45c.

PEPSINATED PUPPY MEAL for delicate puppies. To be used in place of our Plain Puppy Meal for puppies of weak digestion. Contains the requisite proportion of pepsin to render it an easily assimilated food for "bad doers." Small cans, 50c; 2¼-lb. cans, 75c.

SPRATT'S DOG CULTURE.—New edition, 48 pages, contains valuable information on the care, management, breeding, rearing and feeding. Also tells all about Spratt's Food, Remedies and Supplies. **FREE UPON REQUEST.**



ORPHAN PUPPY FOOD.—Substitute for Natural Milk. For use when mother is dead or deficient in milk. Puppies should be fed on this food until weaning time. Small can, 60c; Large, \$1.25.

BONE MEAL FOR PUPPIES.—The strong frame builder. 3-lb. tin can, 40c.

MIDGET BISCUITS.—A small biscuit of superior quality, containing a lesser percentage of meat fibrine than the ordinary cake. About 30 to the pound. Excellent for puppies, toy dogs and cats. 2-lb. carton, 50c.

"SPRATT'S" MOLLICODDLES (Milk-Wheat-Meat).—For dainty feeders, puppies, for toys. These biscuits satisfy the jaded palate, restore the failing appetite and **AT THE SAME TIME** provide a sound and wholesome food. 2-lb. carton, 50c.

Spratt's Remedies and Medicines

DOG SOAP (White).—Kills lice and fleas, prevents skin diseases and leaves the coat smooth and glossy, contains no tar, nicely perfumed. Per cake, 25c; postpaid, 30c.

Antiseptic Soap (Black).—For cuts, wounds, ulcers, etc., disinfectant and germicide. Cake 50c. Postpaid 55c.

Chronic Skin Disease Tablets. Postpaid 60c.

Alternative Cooling Tablets.—For heated blood, etc. Postpaid 60c.

Digestive Tablets.—For severe cases of indigestion. Postpaid 60c.

Diarrhoea Tablets.—To relieve diarrhoea. Postpaid 60c.

Distemper Tablets.—For toy dogs and puppies. Postpaid 85c.

Ear Canker Ointment.—Postpaid 60c.

Eye Lotion (tablet form).—Postpaid 60c.

Eczema Remedy.—Postpaid 60c.

Hair Stimulant and Restorer.—Postpaid 60c

Liver Tablets.—Postpaid 50c.

Locurium Ointment.—For wounds, cuts and bruises. Postpaid 50c.

Purgative Tablets.—Perfectly safe and effective. Postpaid 60c.

Tonic and Condition Tablets.—For toy dogs and puppies. Postpaid 60c.

Worm Capsules.—Dogs remedy for Round, Maw, Tape Worms. Postpaid 60c.

Worm Capsules for Puppies.—May be given with perfect safety. Postpaid 60c.

Vermifuge Capsules.—For toy dogs and puppies. Postpaid 50c.

Mange Remedy.—Pints 50c; prepaid 65c.

DOG WASH.—Disinfectant and deodorizer. Read about Conkey's Noxicide, page 149.

GOLDFISH, GLOBES, FOOD, ETC.

We are the largest retail and wholesale dealers in Fancy Gold Fish in the Northwest, often having a thousand or more on display in our large aquarium at our store.

An aquarium is a beautiful ornament. It suits everywhere—parlor, library, dining and sitting-room, and may indeed be introduced in apartments of the sick. The bright, active Gold Fish are very interesting, a perpetual source of amusement for both old and young folks. Children are always delighted with them.

CARE OF GOLD FISH.—Very simple and little trouble. The water in the aquaria must be changed from one to six times a week, depending on the size of globe, number of fish and the temperature of the room. When fish come to surface and gasp for air, they should be given fresh water. Keep the aquariums out of hot sunlight and in a cool place.

Price List of Fish

COMMON GOLD FISH.—Very hardy and lively. Each, very small, 25c; small, 35c; medium, 50c; medium large, 60c; large, 3 to 4 inches, 75c; extra large, \$1.00; extra large breeders, \$2.00 to \$3.00; fancy tri-colored, 50c to \$1.50 and up.

COMMON SILVER FISH.—Same as above, except they are silvery white. Each, medium, 25c; large, 50c to 75c and up to \$1.50.

JAPANESE GOLD FISH—FAN-TAILS.—The most popular fancy fish. The fins and tail are of a delicate lace-like appearance, very showy and attractive. Price, small, 35c; medium, 50c; large, 75c to \$1.00 and up to \$3.00; tri-colored, golden-red, pearly-white and black, showing two or all three colors, 75c to \$1.50 each.

COMET.—Similar to the Japanese Fan-tail, but the fins and tail are much longer and delicate. The tail is often longer than the fish. Price each, 50c, 60c, 75c, \$1.00 and \$1.50.

CHINESE TELESCOPE.—Curious and attractive on account of the large, elongated eyes, having the appearance of a telescope. Flowing double tails. Very rare. Price each, 75c to \$1.00.

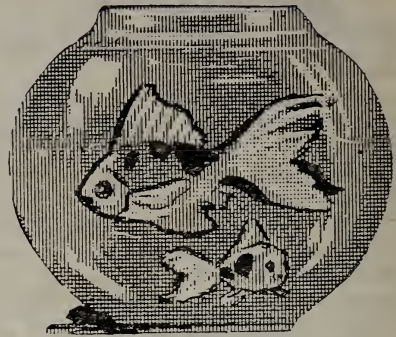
TADPOLES.—Desirable as scavengers for the aquaria. They consume the decaying matter and help keep the water pure. Price each, 15c.

Gold Fish Food

FEEDING.—The only safe diet is our prepared Fish-Food, fed daily and only what they will eat up quickly. More fish die from over-feeding than from any other cause.

RICE WAFER OR FLAKE.—Best and most popular; large box, enough food for four fish for six months, 25c, postpaid. Directions for feeding and care on each box.

SPRATT'S.—A baked food that is re-ground to pin head size. Fish are very fond of it. Per can, 15c; postpaid, 20c.



Fish Globes

Cannot Be Mailed

This style can be set on the table or sideboard, or suspended by brass chains; the most popular and best seller. Note.—Packing charge 25c per gal. extra.

BLOWN GLOBES.—These are the highest quality of glass blown—smooth and perfect. Each, ½ gal., \$1.40; 1 gal., \$2.00; 1½ gal., \$2.60; 2 gal., \$3.25; 2½ gal., \$3.80; 3 gal., \$4.40.

MOLDED GLOBES.—Clear white heavy glass, popular sellers. Each, 1 pint, 25c; 1 qt., 35c; ½ gal., 60c; 1 gal., \$1.40.

SQUAT AQUARIUMS.—Latest style, wider and flatter than above; not so easy to tip over. Each, 1 qt., 65c; ½ gal., 85c; 1 gal., \$2.00; 2 gal., \$4.25; 3 gal., \$6.25.

STANDARD OR FOOTED GLOBES.—Write for prices. We are out of most sizes. Not popular.

SQUARE AQUARIUMS.—Prices on request.

Aquaria Castles

As ornaments to set in the globes. Prices range from 50c and up to \$2.00 each. In ordering state size of globe.

Aquaria Plant or Fish Moss

This water plant improves the appearance of the aquaria or globe and helps purify the water, also keeps the water fresh longer. Price per bunch, 25c, postpaid. Cannot supply in July or August.

BOOK.—"The Aquaria and Care of Fish"; paper cover, 35c, postpaid.

NOTE.—ALL SHIPMENTS (outside of the city) must go by express. A charge of 40c is made to cover cost of Shipping Bucket, holding from two to eight fish. Gold Fish can be shipped safely overland hundreds of miles. They cannot be sent by mail.



Chinese Telescope



Common Gold Fish



Japanese Fan-Tail

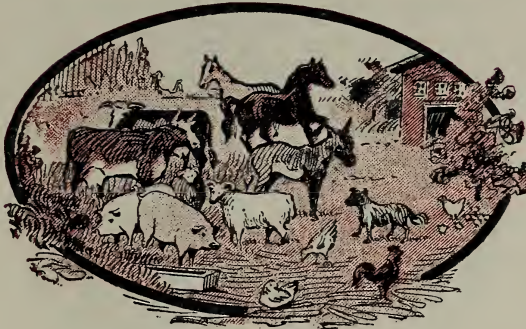
WHEN? We have the largest supply of Gold Fish on hand during the FALL, WINTER and EARLY SPRING. It is not safe to ship fish during the hot summer months.

LET
US
SPRAY



GERMO

REG. U.S. PAT. OFF.



CARBOLINE

Disinfectant, Antiseptic, Germicide, Insecticide and De-Odorant—A Coal Tar Product

CARBOLINE—a successful disinfectant for the poultry yard. Clean premises mean a prosperous business. Lice and mites, as well as many disease germs, thrive in filth.

CARBOLINE has the strength to disinfect your buildings and yards when used in a low solution. For mites and epidemics we recommend CARBOLINE. CARBOLINE should be diluted with water and not mixed with oil of any kind.

Invaluable for disinfecting floors, basements, sinks, water closets, urinals, etc. One gallon of CARBOLINE, when diluted, makes 50 gallons of a milky emulsion, ready for use.

Size—	Price	Size—	Price
1 quart cans.....	\$.90 each	10 gallon cans	\$2.15 gal.
½ gallon cans.....	1.50 each	30 gallons, ½ barrel.....	2.05 gal.
1 gallon cans.....	2.50 gal.	50-55 gallons, barrel.....	2.00 gal.
5 gallon cans.....	2.25 gal.		Prices F. O. B. our warehouse.

ANIMAL DIP

Disinfectant, Deodorizer and Germicide, similar to CARBOLINE, but not as High Phenol Co-Efficiency. Soluble in water.

Highly recommended for Stock Farms and Poultry Ranches and ordinary purposes.

Size—	Price	Size—	Price
1 pint cans	\$.40 each	5 gallon cans	\$1.60 gal.
1 quart cans .....	.65 each	10 gallon cans	1.50 gal.
½ gallon cans	1.00 each	30 gallons, ½ barrel.....	1.30 gal.
1 gallon cans	1.75 gal.	50-55 gallons, barrel.....	1.25 gal.
	Prices F. O. B. our warehouse.		

GERMO RAT KILL

RAT KILL is a very superior article. A trial convinces. Rats and mice disappear.

Size—	Price	Size—	Price
½ lb. can.....	\$1.25	5 lb. can.....	9.50
1 lb. can.....	2.00		

The Germo Line includes many valuable products not listed in this catalogue.

If ordered by mail add 10 cents for one-pound can and for five-pound can add postage sufficient for six pounds.

ASK FOR GERMO BOOKLET. ALSO SEE OTHER GERMO PAGES IN THIS CATALOGUE.
FOR SALE BY

Routledge
SEED & FLORAL Co
145 147 2nd St. PORTLAND ORE.
MANUFACTURED BY

GERMO MFG. CO.
LOS ANGELES



LET
US
SPRAY



LET US SPRAY



GERMO

REG. U. S. PAT. OFF.



FOR CHICKENS, TURKEYS, DUCKS, GEESE, PIGEONS

CHOLERINE tends to condition and keep fowls healthy and make their digestive organs work. Undigested food is costly. CHOLERINE saves the baby chicks. See other CHOLERINE pages for prices and other information.

PINE-OL

DISINFECTANT GERMICIDE DE-ODORANT ANTISEPTIC FRAGRANT PINE ODOR

Emulsifies in water. One part to 100 of water makes a solution sufficiently powerful for ordinary use. Adapted for Stock Farms and Poultry Ranches; also in Hospitals, Sanitariums and similar institutions.

PINE-OL has many uses, but the chief one for the poultryman is in connection with colds, rheumatism, etc.

Size—	Price	Size—	Price
1 quart cans	\$.90 each	10 gallon cans	\$2.25 gal.
1/2 gallon cans	1.50 each	30 gallons, 1/2 barrel.....	2.05 gal.
1 gallon cans	2.75 gal.	50-55 gallans, barrel.....	2.00 gal.
5 gallon cans	2.50 gal.		Prices F. O. B. our warehouse.

MAGIC LICE KILLER

Liquid

Poultry House Disinfectant and Insecticide kills Lice on Chickens, Hogs, Horses, Cattle, Sheep, Dogs, Etc. Also kills head and body Lice, Crabs, Bedbugs, Ants, Roaches, Cloth Moths, Chiggers, Mosquitoes, Fleas and many other insects.

GERMO MAGIC LICE KILLER can be sprayed directly upon poultry, horses, cattle, hogs, as well as pet stock without injury, if lightly sprayed. Do not use on cats or on vegetation. GERMO MAGIC LICE KILLER kills lice and bad odors as if by MAGIC.

Size—	Price	Size—	Price
1 pint cans	\$.40 each	5 gallon cans	\$1.60 gal.
1 quart cans .....	.65 each	10 gallon cans	1.50 gal.
1/2 gallon cans	1.00 each	30 gallons, 1/2 drums.....	1.30 gal.
1 gallon cans	1.75 gal.	50-55 gallons, drums.....	1.25 gal.

Prices F. O. B. our warehouse. Drums, \$7.50.

ASK FOR GERMO BOOKLET. ALSO SEE OTHER GERMO PAGES IN THIS CATALOGUE.

FOR SALE BY

Routledge
SEED & FLORAL CO.

145 147 2nd St. PORTLAND ORE.

MANUFACTURED BY

GERMO MFG. CO.
LOS ANGELES



LET US SPRAY

Quantity.	NAMES OR ARTICLES WANTED.	Amount.
	Amount Brought Forward	
	Total Amount of Order	

SPECIAL NOTICE.—We shall esteem it a great favor if you will give us in the spaces below the names and addresses of some of your neighbors or any acquaintances in the West whom you think would be interested in this catalog. For your kindness, we will put in your order free of charge a premium plant, bulb, or seeds—our selection.

NAME	POST OFFICE	R. F. D.	STATE

NOTE.—Before you send this order read carefully what we have to say about parcel post and transportation charges on inside front cover and on page 1.

REFERENCE TABLES

Quantity of Seeds to produce a given number of plants or to sow an acre

We have carefully revised and lowered the following amounts so that you will NOT PLANT TOO MUCH and thereby WASTE seed while they are HIGH AND SCARCE.

Vegetable Seeds

	Per Acre		Per Acre
Asparagus—1 oz. to 200 plants....	3 lbs.	Kohl-Rabi—1 oz. to 300 ft. drill....	2 lbs.
Beans, Dwarf—1 lb. to 125 ft. drill.	40 lbs.	Leek—1 oz. to 100 ft. drill.....	3 lbs.
Pole—1 lb. to 150 ft. drill.....	35 lbs.	Lettuce—1 oz. to 200 ft. drill....	3 lbs.
Pole—1 lb. to 200 hill.....	25 lbs.	Melon, Musk—1 oz. to 50 hills....	2 lbs.
Field—1 lb. to 200 ft. drill.....	30 lbs.	Water—1 oz. to 35 hills.....	2 lbs.
Lima—1 lb. to 75 hills.....	40 lbs.	Okra—1 oz. to 100 ft. drill.....	5 lbs.
Beet, Table—1 oz. to 60 ft. drill....	6 lbs.	Onion Seed—1 oz. to 200 ft. drill..	3 lbs.
Mangel—1 oz. to 75 ft. drill.....	5 lbs.	For Sets—.....	50 lbs.
Broccoli—1 oz. to 3,000 plants....	3 ozs.	Onion Sets—1 lb. to 35 ft. drill....	200 lbs.
Brussels Sprouts—1 oz. to 3,000 P.	3 ozs.	Parsnips—1 oz. to 300 ft. drill....	3 lbs.
Cabbage—1 oz. to 3,000 plants....	3 ozs.	Parsley—1 oz. to 350 ft. drill.....	2 lbs.
Carrot—1 oz. to 150 ft. drill.....	2½ lbs.	Peas, Dwarf—1 lb. to 125 ft. drill..	80 lbs.
Cauliflower—1 oz. to 4,000 plants..	3 ozs.	Tall—1 lb. to 150 ft. drill.....	60 lbs.
Celery—1 oz. to 5,000 plants.....	3 ozs.	Pepper—1 oz. to 2,000 plants.....	4 ozs.
Chicory—1 oz. to 100 ft. drill....	4 lbs.	Potatoes	600 to 700 lbs.
Corn, Sweet—1 lb. to 150 ft. drill....	18 lbs.	Pumpkin—1 oz. to 35 hills.....	3 lbs.
Sweet—1 lb. to 160 hills.....	15 lbs.	Radish—1 oz. to 100 ft. drill.....	10 lbs.
Corn Salad—1 oz. to 50 ft. drill....	5 lbs.	Rutabaga—1 oz. to 250 ft. drill....	2 lbs.
Cress—1 oz. to 40 ft. drill.....	1 lb.	Salsify—1 oz. to 100 ft. drill.....	8 lbs.
Cucumber—1 oz. to 50 hills.....	2 lbs.	Spinach—1 oz. to 100 ft. drill....	10 lbs.
Egg Plant—1 oz. to 3,000 plants..	4 ozs.	Squash, Summer—1 oz. to 50 hills..	2 lbs.
Endive—1 oz. to 300 ft. drill.....	4 lbs.	Winter—1 oz. to 35 hills.....	3 lbs.
Horseradish Roots	10 to 15 M.	Tomatoes—1 oz. to 3,000 plants....	3 ozs.
Kale, Table—1 oz. to 3,000 plants..	1 lb.	Tobacco—1 oz. to 4,000 plants....	
Stock—1 oz. to 300 ft. drill.....	2 lbs.	Turnips—1 oz. to 250 ft. drill.....	2 lbs.

Field, Farm, Grass and Clover Seeds

	Quantity per Acre		Quantity per Acre
Alfalfa	12 to 25 lbs.	Rye Grass—for Pasture.....	30 lbs.
Artichokes	400 to 600 lbs.	Rye Grass—for Lawn	100 lbs.
Barley—(drills 75 lbs.)	100 lbs.	Sudan—drills	3 to 5 lbs.
Buckwheat—(drills 30 lbs.)	50 lbs.	Broadcast	16 to 20 lbs.
Cheat	100 lbs.	Kaffir Corn—drills	6 to 10 lbs.
Clover—Alyske and White.....	6 to 10 lbs.	Millet—for Seed	20 lbs.
White for lawn.....	1 lb. to 25 ft. square	For Hay	30 lbs.
Crimson	10 to 15 lbs.	Oats—for Seed	80 to 100 lbs.
Red	8 to 15 lbs.	For Hay	100 lbs.
Sweet	15 to 20 lbs.	Peas, Field—100 lbs. or 80 lbs. with 35 lbs. Oats	
Corn, Field—Hills	15 lbs.	Rape—(drills 3 lbs.).....	broadcast 5 lbs.
For Fodder, drills	50 lbs.	Rye—for Grain	80 to 100 lbs.
Grass, Kentucky Blue—Pasture.....	20 to 30 lbs.	For Hay	100 to 120 lbs.
Kentucky Blue—for Lawns.....	1 lb. to 15 ft. sq.	Speltz or Emmer	30 lbs.
Mixed Lawn	1 lb. to 15 ft. sq.	Sugar Cane	10 to 12 lbs.
Red Top—Common	25 to 30 lbs.	Sunflower	5 to 7 lbs.
Red Top—Hulled, Solid Seed.....	10 to 15 lbs.	Timothy	12 to 15 lbs.
Orchard	25 to 30 lbs.	Vetches—85 lbs. or 60 lbs. with 40 lbs. Grain	
Brome Grass	25 to 30 lbs.	Vetch, Hairy or Sand.....	30 lbs.
		Wheat	80 to 100 lbs.

Suitable Distance for Planting Trees and Plants

Note.—In planting in the home garden for hand cultivation you can set plants or trees closer.

Apples, Standard	20 to 30 feet	Currants	4 by 4 feet
Apples, Dwarf	10 to 12 feet	Gooseberries	4 by 4 feet
Pears, Standard	18 to 20 feet	Raspberries	3 by 6 feet
Pears, Dwarf	10 feet	Trailing Berries, Logans, etc..	6 by 8 feet
Peaches and Apricots	16 to 18 feet	Other Blackberries	2½ by 6 feet
Cherries, Sweet	20 to 25 feet	Strawberries, in Hills.....	1½ by 2½ feet
Cherries, Sour	16 to 20 feet	Strawberries, Matted Rows....	2½ by 4 feet
Plums and Prunes.....	16 to 20 feet	Asparagus, in Beds	1 by 1½ feet
Quinces	10 to 12 feet	Asparagus, in Field	1 by 4 feet
Grapes	5 by 12 feet	Rhubarb	2 by 4 feet

Number of Trees or Plants On An Acre

1 by 2 feet.....	21,780	3 by 5 feet.....	2,904	12 by 12 feet.....	802
1 by 3 feet.....	14,520	3 by 6 feet.....	2,420	15 by 15 feet.....	193
1 by 4 feet.....	10,890	4 by 4 feet.....	2,722	16 by 16 feet.....	170
1½ by 2 feet.....	14,520	4 by 6 feet.....	1,815	18 by 18 feet.....	135
1½ by 3 feet.....	9,680	6 by 8 feet.....	907	20 by 20 feet.....	109
2 by 3 feet.....	7,260	6 by 6 feet.....	1,210	25 by 25 feet.....	70
2 by 4 feet.....	5,445	8 by 8 feet.....	680	30 by 30 feet.....	48
3 by 4 feet.....	3,630	10 by 10 feet.....	430	40 by 40 feet.....	27

RULE.—Multiply the distance in feet between the rows by the distance the plants are apart in the rows, and the product will be the number of square feet, for each plant or hill, which, divided into the number of square feet in an acre (43,560), will give the number of plants to the acre.

POULTRY SUPPLIES FOODS·REMEDIES

**PURE BRED
POULTRY
AND
PIGEONS**

HIGHEST
QUALITY



BABY
CHICKS

**BIRDS
RABBITS
PUPPIES
PET STOCK
SUPPLIES**



**Routledge
SEED & FLORAL Co**

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